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1 Bonded flexible pipe

Northcutt, V.M.

OCEANS 2000 MTS/IEEE Conference and Exhibition , Volume: 2 , 2000

Page(s): 1407 -1412 vol.2

[\[Abstract\]](#) [\[PDF Full-Text\]](#) **CNF**

2 Development of a hermetically sealed, high-energy trigatron switch repetition rate applications

Lehr, J.M.; Abdalla, M.D.; Gruner, F.R.; Cockreham, B.C.; Skipper, M.C.; Ahe Prather, W.D.

Plasma Science, IEEE Transactions on , Volume: 28 Issue: 5 , Oct. 2000

Page(s): 1469 -1475

[\[Abstract\]](#) [\[PDF Full-Text\]](#) **JNL**

3 The history and development of low flow breathing systems

White, D.C.

Low Flow Anaesthesia Breathing Systems - Technology, Safety and Economic 1999/060), IEE Seminar on , 1999

Page(s): 1/1 -1/4

[\[Abstract\]](#) [\[PDF Full-Text\]](#) **CNF**

4 The use of high temperature electronics in downhole applications

den Boer, J.J.

High Temperature Electronics, 1999. HITEN 99. The Third European Conference 1999

Page(s): 149 -152

[\[Abstract\]](#) [\[PDF Full-Text\]](#) **CNF**

5 Recent developments in seismic exploration and reservoir character

Ullo, J.

Ultrasonics Symposium, 1997. Proceedings., 1997 IEEE , Volume: 1 , 1997,
Page(s): 787 -796 vol.1

[\[Abstract\]](#) [\[PDF Full-Text\]](#) **CNF**

**6 Gas dissolved in the depth of natural reservoirs as a renewable ene
source: the theory of self-supported gaslift**

Blekhman, I.I.; Kremer, E.B.; Yakimova, K.S.

Energy Conversion Engineering Conference, 1997. IECEC-97., Proceedings of
Intersociety , Volume: 3 , 1997

Page(s): 1846 -1848 vol.3

[\[Abstract\]](#) [\[PDF Full-Text\]](#) **CNF**

**7 Development of a mobility assist for the paralyzed, amputee, and sp
patient**

Johnson, D.C.; Repperger, D.W.; Thompson, G.

Biomedical Engineering Conference, 1996., Proceedings of the 1996 Fifteenth
, 1996

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8 SNUPAR-a nuclear parameter code for nuclear geophysics applicatio

McKeon, D.C.; Scott, H.D.

Nuclear Science, IEEE Transactions on , Volume: 36 Issue: 1 Part: 1 , Feb. 19

Page(s): 1215 -1219

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1 Application of evolutionary techniques to short-term optimization o hydrothermal systems

Manzanedo, F.; Castro, J.L.; Perez-Donsion, M.

Power System Technology, 2000. Proceedings. PowerCon 2000. International Conference on , Volume: 3 , 2000

Page(s): 1539 -1544 vol.3

[\[Abstract\]](#) [\[PDF Full-Text\]](#) **CNF**

2 Short and mid term hydro power plant reservoir inflow forecasting

Stokelj, T.; Paravan, D.; Golob, R.

Power System Technology, 2000. Proceedings. PowerCon 2000. International Conference on , Volume: 2 , 2000

Page(s): 1107 -1112 vol.2

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3 An expert system approach for water management in case of droug

Chang, T.J.; Moore, D.

Intelligent Information Systems, 1997. IIS '97. Proceedings , 1997

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4 Open and fully distributed architecture for an energy management

Huber, A.

Power Industry Computer Application Conference, 1993. Conference Proceed

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5 System-effectiveness assessment in offshore field development usi life-cycle performance simulation

Ostebo, R.

Ostebo, R.

Reliability and Maintainability Symposium, 1993. Proceedings., Annual , 1993
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6 Optimal short term operation of a purely hydroelectric system

Hreinsson, E.B.

Power Systems, IEEE Transactions on , Volume: 3 Issue: 3 , Aug. 1988
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1 Short and mid term hydro power plant reservoir inflow forecasting

Stokelj, T.; Paravan, D.; Golob, R.

Power System Technology, 2000. Proceedings. PowerCon 2000. International Conference on , Volume: 2 , 2000

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2 Commercialization risks in the Brazilian market

Maceira, M.E.P.; Melo, A.C.G.; Costa, A.P.C.; Mercio, C.M.; Gorenstin, B.G.

Electric Power Engineering, 1999. PowerTech Budapest 99. International Con , 1999

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3 Stochastic optimization of a hydro-thermal system including netwo constraints

Gorenstin, B.G.; Campodonico, N.M.; da Costa, J.P.; Pereira, M.V.F.

Power Systems, IEEE Transactions on , Volume: 7 Issue: 2 , May 1992

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[\[Abstract\]](#) [\[PDF Full-Text\]](#) **JNL**

4 Stochastic optimization of a hydro-thermal system including netwo constraints

Gorenstin, B.G.; Campodonico, N.M.; Costa, J.P.; Pereira, M.V.F.

Power Industry Computer Application Conference, 1991. Conference Proceed

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[\[Abstract\]](#) [\[PDF Full-Text\]](#) **CNF**

5 Recent measurements of the thermionic characteristics of duplex tungsten-niobium converters

Hatch, G.L.; Despat, J.L.

Hatch, G.L.; Despat, J.L.

Energy Conversion Engineering Conference, 1989. IECEC-89., Proceedings of Intersociety , 1989

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1 Application of neural networks for analysis, imitation modelling and control of oil fields

Ivanenko, B.; Kostyuchenko, S.; Parfenov, A.; Muslimov, E.; Yampolsky, V.
Korea-Russia Int'l Symp on Science and Tech, Proceedings of the 4th , Volum
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2 EABSYS: electrically actuated braking system

Collins, A.

Electrical Machines and Systems for the More Electric Aircraft (Ref. No. 1999/
Colloquium on , 1999

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3 Application of neural network technology for modelling well operat fluid filtration processes in oil reservoirs

Kostyuchenko, S.; Ivanenko, B.

Science and Technology, 2000. KORUS '99. Proceedings. The Third Russian-K
International Symposium on , Volume: 1 , 1999

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4 Development of a heat-driven pulse pump for spacecraft application

Benner, S.M.; Martins, M.S.

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**5 Engineering testing of the capillary pumped loop thermal control sy
the NASA EOS-AM spacecraft**

Krotiuk, W.J.

Energy Conversion Engineering Conference, 1997. IECEC-97., Proceedings of
Intersociety , 1997

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6 Rock permeability in high-temperature geothermal systems

Nielson, D.L.

Energy Conversion Engineering Conference, 1997. IECEC-97., Proceedings of
Intersociety , Volume: 3 , 1997

Page(s): 1837 -1839 vol.3

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7 Migrating CM Fortran applications to HPF

Meadows, L.; Miles, D.

Frontiers of Massively Parallel Computation, 1995. Proceedings. Frontiers '95
Symposium on the , 1994

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8 Techno-economic modelling of HDR systems (geothermal power)

Harrison, R.; Mortimer, N.

Recent Progress in the Development of Geothermal Hot Dry Rock Technology
Colloquium on , 1989

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1 New artificial superlattices: correlation between structural disorder transport properties

Marre, D.; Gariglio, S.; Pallecchi, I.; Siri, A.S.

Applied Superconductivity, IEEE Transactions on , Volume: 9 Issue: 2 Part: 2 1999

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1 Long-term stability and performance characteristics of crystal quartz at high pressures and temperatures

Matsumoto, N.; Sudo, Y.; Sinha, B.K.; Niwa, M.

Ultrasonics, Ferroelectrics and Frequency Control, IEEE Transactions on , Volu
Issue: 2 , March 2000

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2 Long-term stability and performance characteristics of crystal quartz at high pressures and temperatures

Matsumoto, N.; Sudo, Y.; Sinha, B.; Niwa, M.

European Frequency and Time Forum, 1999 and the IEEE International Frequen
Control Symposium, 1999., Proceedings of the 1999 Joint Meeting of the , Vo
1999

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3 Applications of sonics and ultrasonics in geophysical prospecting

Sinha, B.K.; Zeroug, S.

Ultrasonics Symposium, 1999. Proceedings. 1999 IEEE , Volume: 1 , 1999

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4 Recent developments in seismic exploration and reservoir character

Ullo, J.

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5 The reconstruction of subsurface property maps using projection on

convex sets*Malinverno, A.; Rossi, D.J.; Daniel, M.*

Acoustics, Speech, and Signal Processing, 1994. ICASSP-94., 1994 IEEE International Conference on , Volume: v , 1994

Page(s): V/313 -V/316 vol.5

[\[Abstract\]](#) [\[PDF Full-Text\]](#) **CNF****6 Enhancing geochemical interpretation using high vertical resolution***Flaum, C.*Nuclear Science, IEEE Transactions on , Volume: 37 Issue: 2 Part: 2 , April 1994
Page(s): 948 -953[\[Abstract\]](#) [\[PDF Full-Text\]](#) **JNL****7 Single well sonic imaging of near borehole structure***Hornby, B.E.; Rossi, D.J.*

Multidimensional Signal Processing Workshop, 1989., Sixth , 1989

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[\[Abstract\]](#) [\[PDF Full-Text\]](#) **CNF****8 Variance reduction techniques for improved derived elemental concentrations from fitting prompt neutron capture gamma ray spect***Galford, J.E.; Hertzog, R.C.*Nuclear Science, IEEE Transactions on , Volume: 36 Issue: 1 Part: 1 , Feb. 1994
Page(s): 1232 -1236[\[Abstract\]](#) [\[PDF Full-Text\]](#) **JNL****9 SNUPAR-a nuclear parameter code for nuclear geophysics applicatio***McKeon, D.C.; Scott, H.D.*Nuclear Science, IEEE Transactions on , Volume: 36 Issue: 1 Part: 1 , Feb. 1994
Page(s): 1215 -1219[\[Abstract\]](#) [\[PDF Full-Text\]](#) **JNL****10 Elemental concentrations from neutron induced gamma ray spectr***Hertzog, R.*Nuclear Science, IEEE Transactions on , Volume: 35 Issue: 1 Part: 1-2 , Feb. 1994
Page(s): 827 -832[\[Abstract\]](#) [\[PDF Full-Text\]](#) **JNL**

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L3 17328 S L2 AND DEVELOPMENT
L4 12570 S L3 AND CHARACTER?
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L6 468 S L5 AND OPTIMIZ?
L7 270 S L6 AND PERFORMANCE
L8 51 S L7 AND MANAG?
L9 42 S L8 AND PLAN#
L10 44 S RESERVOIR DEVELOPMENT
L11 12 S L10 AND OPTIMIZ?
L12 127 S RESERVOIR MANAGEMENT
L13 27 S L12 AND OPTIMIZ?
L14 10 S L13 AND PERFORMANCE

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L14 ANSWER 1 OF 10 USPATFULL

ACCESSION NUMBER: 2001:118222 USPATFULL

TITLE: System and method for real time **reservoir management**

INVENTOR(S): Thomas, Jacob, Houston, TX, United States
Godfrey, Craig, Richardson, TX, United States
Vidrine, William Launey, Katy, TX, United States
Wauters, Jerry Wayne, Katy, TX, United States
Seiler, Douglas Donald, Houston, TX, United States

PATENT ASSIGNEE(S): Halliburton Energy Services, Inc., Dallas, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6266619	B1	20010724
APPLICATION INFO.:	US 1999-357426		19990720 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	McElheny, Jr., Donald E.		
LEGAL REPRESENTATIVE:	Herman, Paul I., Rippamonti, Russell N.		
NUMBER OF CLAIMS:	32		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	913		

AB A method of real time field wide **reservoir management** comprising the steps of processing collected field wide reservoir data in accordance with one or more predetermined algorithms to obtain a resultant desired field wide production/injection forecast, generating
a signal to one or more individual well control devices instructing the device to increase or decrease flow through the well control device, transmitting the signal to the individual well control device, opening or closing the well control device in response to the signal to increase

time or decrease the production for one or more selected wells on a real basis. The system for field wide **reservoir management** comprising a CPU for processing collected field wide reservoir data, generating a resultant desired field wide production/injection forecast and calculating a target production rate for one or more wells and one or more down hole production/injection control devices.

L14 ANSWER 2 OF 10 USPATFULL

ACCESSION NUMBER: 2001:73690 USPATFULL
TITLE: Multiphase metering method for multiphase flow
INVENTOR(S): Butler, Bryan V., Garrison, TX, United States
PATENT ASSIGNEE(S): Rosewood Equipment Company, Plano, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6234030	B1	20010522
APPLICATION INFO.:	US 1998-143035		19980828 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fuller, Benjamin H.		
ASSISTANT EXAMINER:	Patel, Jagdish		
LEGAL REPRESENTATIVE:	Standley & Gilcrest LLP		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 13 Drawing Page(s)		
LINE COUNT:	1017		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention includes a method for multiphase metering of multiphase flow. the method begins with reducing gas volume to about 20% or less, then pumping the flow stream through two meters, a cut meter and a mass flow meter, arranged in series. Computations may be made on the flow stream to determine net oil rate, water cut, and gas fraction in the flow stream.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 3 OF 10 USPATFULL

ACCESSION NUMBER: 2001:50174 USPATFULL
TITLE: Apparatus and method to obtain representative samples of oil well production
INVENTOR(S): Ekdahl, Donald W., 3031 21st St., Bakersfield, CA, United States 93301
Nelson, Donald C., 4408 Onix Ct., Bakersfield, CA, United States 93308

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6212948	B1	20010410
APPLICATION INFO.:	US 1999-340517		19990628 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Williams, Hezron		
ASSISTANT EXAMINER:	Wiggins, David J.		
LEGAL REPRESENTATIVE:	Mon, Donald D.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 11 Drawing Page(s)		
LINE COUNT:	438		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An apparatus and process for obtaining representative samples of fluids produced from one or more oil wells by means of a closed vessel chamber

with lease water supply port connected to a lease water supply line, where a pressure sensor within such internal chamber is used together with a flowmeter and liquid-sensing probe or oil/water interface sensor employed in the fluid flow path lines to determine a rate of well production along with absolute or relative amounts of oil, water and gas

contents. A complex and extensive distribution of fluid flowpath lines and flow control valves are employed in this well tester to achieve a multitude of process steps such as chamber filling with well fluids, chamber gas expulsion, chamber pressure measurement, chamber contents settling and stratification, gas compression, gas purging, lease water injection, chamber oil expulsion, line flushing of well fluids, air/oil interface sensing, gas/oil interface sensing, fluid flow measurement, time interval measurement and gas volume calculation via Boyle's Law by choosing a proper setting of selectable valve arrangements among a well selector valve, gas control valve, test fluid inlet valve, by-pass valve, lease water valve, purge valve and sample exit line selector valve.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 4 OF 10 USPATFULL

ACCESSION NUMBER: 2000:148662 USPATFULL

TITLE: Method and system for producing fluids from low permeability formations

INVENTOR(S): Branson, Jr., Aubrey G., Bakersfield, CA, United States

Kelly, Michael Patrick, Bakersfield, CA, United States
Swain, Robert S., Plano, TX, United States

PATENT ASSIGNEE(S): Atlantic Richfield Company, Chicago, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6142229		20001107
APPLICATION INFO.:	US 1998-154360		19980916 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Bagnell, David		
ASSISTANT EXAMINER:	Dougherty, Jennifer R.		
LEGAL REPRESENTATIVE:	Gabala, James A., Sloat, Robert E.		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	686		

AB A method and system for producing hydrocarbons from a low permeability formation through a well wherein the formation is first fractured with steam. The pressure of the produced fluids is measured at timed intervals and signals representative of these measurements are inputted into a computer which, in turn, calculates the rate of change in the pressure and compares this rate to a preferred limit of rate change. When the limit is exceeded, the computer outputs a signal to adjust a control value in the production line to keep the rate of pressure decrease within the preferred limit. When production drops below a certain level, the control valve is fully opened to "bump" the well and allow the pressure to increase to a new maximum. This new maximum pressure is then used to set a new preferred limit of pressure rate change.

L14 ANSWER 5 OF 10 USPATFULL

ACCESSION NUMBER: 96:107139 USPATFULL

TITLE: Method and apparatus for determining watercut fraction and gas fraction in three phase mixtures of oil, water and gas

INVENTOR(S): Marrelli, John D., Houston, TX, United States
Siddiqui, Farhan, Katy, TX, United States
PATENT ASSIGNEE(S): Texaco Inc., White Plains, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5576974		19961119
APPLICATION INFO.:	US 1994-228614		19940415 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Voeltz, Emanuel T.		
ASSISTANT EXAMINER:	Shah, Kamini S.		
LEGAL REPRESENTATIVE:	Priem, Kenneth R., Bailey, James L., Morgan, Richard A.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
LINE COUNT:	378		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The gas fraction of a multiphase fluid is determined using 'on-line' statistical methods and then using that fraction to compute the correct water fraction. The gas fraction (Xg) is detected by using the standard deviation of the raw phase (Pstd), maximum phase in the sampling interval (Pmax), average phase (Pavg) or standard deviation of attenuation (Astd) data and maximum attenuation in the sampling interval (Amax), or average attenuation (Aavg) from streams flowing in the water fraction monitor sensor cell where the conditions are determined.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 6 OF 10 USPATFULL

ACCESSION NUMBER: 95:42207 USPATFULL
TITLE: Method and apparatus for monitoring downhole temperatures
INVENTOR(S): Griston, Suzanne, Bakersfield, CA, United States
Crowe, John, Brea, CA, United States
Reik, Barry A., Fullerton, CA, United States
PATENT ASSIGNEE(S): Chevron Research and Technology Company, San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5415037		19950516
APPLICATION INFO.:	US 1992-985773		19921204 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Williams, Hezron E.		
ASSISTANT EXAMINER:	Brock, Michael J.		
LEGAL REPRESENTATIVE:	Carson, M. W.		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	558		

AB A method and apparatus for determining the temperature in a wellbore is disclosed. The apparatus is lowered into a wellbore to a desired depth and logged over a selected interval. At least one first heat flux and temperature sensor contacts the wellbore wall. At least one second heat flux and temperature sensor is maintained in contact with the drilling fluid. Comparison of sensor responses provides an accurate determination of the wellbore wall temperature, and a determination of the quality of sensor-wellbore wall contact.

L14 ANSWER 7 OF 10 PATFULL
 ACCESSION NUMBER: 92:77335 USPATFULL
 TITLE: Scenario **optimization**
 INVENTOR(S): Dembo, Ron S., 398 Markham Street, Toronto, Ontario,
 Canada M6G 2K9

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5148365		19920915
APPLICATION INFO.:	US 1989-394081		19890815 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Smith, Jerry		
ASSISTANT EXAMINER:	Trammell, Jim		
LEGAL REPRESENTATIVE:	Spencer, Frank & Schneider		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	782		

AB A method and apparatus are provided for optimally allocating available resources in a physical system defined by a mathematical model having parameters of uncertain values. The method comprises the steps of firstly assigning a value to each of the uncertain parameters in the mathematical model based on a scenario that may or is expected to occur.

Thereafter, given the parameter values at each possible scenario, the mathematical model is solved to yield the best solution of the mathematical model for that scenario. Once this has been complete, a probability value representing the expected probability that the scenario will occur is assigned to each scenario solution. The scenario parameter values, scenario solutions and scenario probabilities are then used to determine a single solution to the mathematical model which best "fits" the desired system behavior under the uncertainty defined by all of the scenarios considered. The single solution is then used to allocate the resources in the system. The present method is particularly useful in modelling a target portfolio from a number of other financial instruments.

L14 ANSWER 8 OF 10 INSPEC COPYRIGHT 2001 IEE
 ACCESSION NUMBER: 1998:5862213 INSPEC
 DOCUMENT NUMBER: C9804-7340-040
 TITLE: Group oriented software solution for pattern material balance of an areally extensive field, Kuparuk River Field, Alaska.
 AUTHOR: Hedges, P.L.; Scherer, P.W. (ARCO Alaska Inc., USA)
 SOURCE: Proceedings. Petroleum Computer Conference Richardson, TX, USA: Soc. Petroleum Eng, 1996.
 p.41-51 of 278 pp. 8 refs. Availability: Society of Petroleum Engineers (SPE) Inc, PO Box 833836, Richardson, TX 75083-3836, USA
 Conference: Dallas, TX, USA, 2-5 June 1996
 DOCUMENT TYPE: Conference Article
 TREATMENT CODE: Practical
 COUNTRY: United States
 LANGUAGE: English
 DN C9804-7340-040
 AB Monitoring the **performance** of the Kuparuk River Unit waterflood at a multi well, pattern level is a critical part of field operations.
 The

reservoir **performance** analysis **optimizes** allocation of injected fluid, **helps** identify well work and **infers** drilling opportunities, **supports** **reservoir management** strategies, and provides a basis for development planning. Faulting and stratigraphy of the reservoir make it difficult to determine areal and vertical allocation factors for fluids in the surveillance patterns; therefore material balance calculations are required to judge their validity. The problem is exacerbated by the number of patterns analyzed and the need to share intermediate results between all of engineers that need to be involved in the process. To help solve the problem, a suite of programs for interactive pattern material balance was developed. The program suite includes a principle material balance calculation application along with several ancillary programs for interactive database updates and post processing. The program suite allows engineers to interactively change input parameters and review material balance results. Internal checks ensure consistency throughout the field. The programs are fully integrated with a large central relational database which includes tables for areal and vertical allocation factors, production, injection, and static pattern information.

L14 ANSWER 9 OF 10 INSPEC COPYRIGHT 2001 IEE

ACCESSION NUMBER: 1990:3558244 INSPEC
DOCUMENT NUMBER: C90011315
TITLE: Multicriteria reservoir control: experience on an Italian lake.
AUTHOR: Gandolfi, C.; Guariso, G.; Rinaldi, S. (CNR, Politecnico di Milano, Italy)
SOURCE: Systems Analysis Applied to Management of Water Resources Selected Papers from the 4th IFAC Symposium Editor(s): Jellali, M. Oxford, UK: Pergamon, 1989. p.65-71 of xi+185 pp. 6 refs.
Conference: Rabat, Morocco, 11-13 Oct 1988
Sponsor(s): IFAC
ISBN: 0-08-035733-4
DOCUMENT TYPE: Conference Article
TREATMENT CODE: Theoretical
COUNTRY: United Kingdom
LANGUAGE: English

DN C90011315

AB Reservoir operation is a process of making tradeoffs among conflicting objectives on the basis of different **performance** criteria. In the paper it is shown that, in the case of lake Como (a regulated lake in Northern Italy), the choice of the **optimization** criterion strongly affects the solution of the multiobjective optimal control problem of the lake, leading to substantially different operating rules. It is also shown that the two approaches can be combined, thus achieving highly satisfactory **performances** with respect to both criteria.

L14 ANSWER 10 OF 10 EUROPATFULL COPYRIGHT 2001 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 964134 EUROPATFULL EW 199950 FS OS
TITLE: Power and signal transmission using insulated conduit for permanent downhole installations.
Leistungs- und Signaluebertragung von einer isolierten Leitung fuer Dauerbohrloch-anlagen.
Transmission de puissance et de signal au moyen d'un conduit isole pour des ins-tallations permanentes de fond de puits.
INVENTOR(S): Babour, Kamal, 33, avenue Victor Hugo, 91440 Bures sur Yvette, FR;

Rossi, David, 68, boulevard Bourdon, 92200 Neuilly sur
Seine, FR;
Chouzenoux, Christian, 33, rue Mont Valerien, 92210
St. Cloud, FR
PATENT ASSIGNEE(S): SCHLUMBERGER TECHNOLOGY B.V., Parkstraat 83-89, 2514 JG
The Hague, NL, in DE, DK, IT;
SERVICES PETROLIERS SCHLUMBERGER, 42, rue
Saint-Dominique, F-75007 Paris, FR, in FR;
SCHLUMBERGER HOLDINGS LIMITED, P.O. Box 71, Craigmuir
Chambers, Road Town, Tortola, VG, in NL
PATENT ASSIGNEE NO: 992296; 253294; 1189800
AGENT: Hagel, Francis, ETUDES ET PRODUCTIONS SCHLUMBERGER
Service Brevets B.P. 202, 92142 Clamart Cedex, FR
AGENT NUMBER: 44345
OTHER SOURCE: ESP1999092 EP 0964134 A2 991215
SOURCE: Wila-EPZ-1999-H50-T1b
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R
GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R
SE; R AL; R LT; R LV; R MK; R RO; R SI
PATENT INFO.PUB.TYPE: EPA2 EUROPAEISCHE PATENTANMELDUNG
PATENT INFORMATION:

	PATENT NO	KIND DATE
	EP 964134	A2 19991215
'OFFENLEGUNGS' DATE:		19991215
APPLICATION INFO.:	EP 1999-201789	19990607
PRIORITY APPLN. INFO.:	GB 1998-12812	19980612

=> D HIS

(FILE 'HOME' ENTERED AT 14:15:22 ON 24 JUL 2001)

FILE 'USPATFULL, INSPEC, EUROPATFULL' ENTERED AT 14:15:41 ON 24 JUL 2001

L1 169844 S RESERVOIR
L2 118408 S L1 AND (FLUID OR GAS)
L3 17328 S L2 AND DEVELOPMENT
L4 12570 S L3 AND CHARACTER?
L5 1180 S L4 AND CHARACTERIZATION
L6 468 S L5 AND OPTIMIZ?
L7 270 S L6 AND PERFORMANCE
L8 51 S L7 AND MANAG?
L9 42 S L8 AND PLAN#
L10 44 S RESERVOIR DEVELOPMENT
L11 12 S L10 AND OPTIMIZ?

=> D L11 1-12 IBIB ABS

L11 ANSWER 1 OF 12 USPATFULL

ACCESSION NUMBER: 2001:118222 USPATFULL
TITLE: System and method for real time reservoir management
INVENTOR(S): Thomas, Jacob, Houston, TX, United States
Godfrey, Craig, Richardson, TX, United States
Vidrine, William Launey, Katy, TX, United States
Wauters, Jerry Wayne, Katy, TX, United States
Seiler, Douglas Donald, Houston, TX, United States
PATENT ASSIGNEE(S): Halliburton Energy Services, Inc., Dallas, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6266619	B1	20010724
APPLICATION INFO.:	US 1999-357426		19990720 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	McElheny, Jr., Donald E.		
LEGAL REPRESENTATIVE:	Herman, Paul I., Rippamonti, Russell N.		
NUMBER OF CLAIMS:	32		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	913		

AB A method of real time field wide reservoir management comprising the steps of processing collected field wide reservoir data in accordance with one or more predetermined algorithms to obtain a resultant desired field wide production/injection forecast, generating a signal to one or more individual well control devices instructing the device to increase or decrease flow through the well control device, transmitting the signal to the individual well control device, opening or closing the well control device in response to the signal to increase or decrease the production for one or more selected wells on a real time basis. The system for field wide reservoir management comprising a CPU for processing collected field wide reservoir data, generating a resultant desired field wide production/injection forecast and calculating a target production rate for one or more wells and one or more down hole production/injection control devices.

L11 ANSWER 2 OF 12 PATFULL

ACCESSION NUMBER: 2000:22485 USPATFULL

TITLE: Method for constituting a model representative of multiphase flows in oil production pipes

INVENTOR(S): Henriot, Veronique, Rueil-Malmaison, France
Duchet-Suchaux, Pierre, Paris, France
Leibovici, Claude, Pau, France
Faille, Isabelle, Carriere-sur-Seine, France
Heintze, Eric, Meudon, France

PATENT ASSIGNEE(S): Institut Francais Du Petrole, Rueil-Malmaison, France
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6028992		20000222
APPLICATION INFO.:	US 1997-971165		19971114 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1996-14124	19961118
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Teska, Kevin J.	
ASSISTANT EXAMINER:	Jones, Hugh	
LEGAL REPRESENTATIVE:	Antonelli, Terry, Stout & Kraus, LLP	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 3 Drawing Page(s)	
LINE COUNT:	573	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides a model representative of steady and transient flows, in a pipe, of a mixture of multiphase fluids, which takes account

a set of variables defining the properties of the fluids and of the flow

modes having separate phases which are dispersed and intermittent, and the dimensions and slope of the pipes. The modeled quantities characterizing the flow are determined by solving a set of transport equations, an equation of mass conservation per constituent and an equation of momentum of the mixture, and by using a hydrodynamic model and a hydrodynamic model of the fluids. The models are formed by considering the mixture to be substantially at equilibrium at all times and that the constituents of the multiphase mixture are variable all along the pipe. The method can be applied to hydrocarbon transportation network study and to determination of characteristics of flow of the multiphase mixture in the pipe.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 3 OF 12 USPATFULL

ACCESSION NUMBER: 2000:10487 USPATFULL

TITLE: Three-dimensional seismic imaging of complex velocity structures

INVENTOR(S): Sethian, James A., San Francisco, CA, United States
Popovici, Alexander M., Portola Valley, CA, United States

PATENT ASSIGNEE(S): 3DGeo Development, Inc., Mountain View, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6018499		20000125
APPLICATION INFO.:	US 1998-175743		19981020 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-64213	19971104 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Oda, Christine K.	
ASSISTANT EXAMINER:	Jolly, Anthony	
LEGAL REPRESENTATIVE:	Popovici, Andrei D.	
NUMBER OF CLAIMS:	26	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 9 Drawing Page(s)	
LINE COUNT:	659	

AB Accurate and reliable traveltimes for a seismic exploration volume having a complex velocity structure are generated by selectively advancing a traveltime front at its minimum traveltime grid point, using an entropy-satisfying finite-difference approximation to the eikonal equation. A narrow band propagation zone is used to advance the finite difference stencil. Tentative traveltimes for the narrow band adjacent to the traveltime front are computed using the eikonal equation and arranged on a heap. The minimum traveltime (top of the heap) is selected as an accepted traveltime, saved in the output table, and removed from the heap. Tentative traveltimes for all non-accepted grid points neighboring the selected point are then computed/recomputed and put on the heap. The traveltime computation is fast, unconditionally stable, resolves any overturning propagation wavefronts, and ensures that the eikonal equation is globally solved for each point of the 3-D grid. The traveltimes accurately characterize the propagation of seismic signals through the volume. The traveltimes are used for accurately imaging the volume.

L11 ANSWER 4 OF 12 USPATFULL

ACCESSION NUMBER: 1999:42302 USPATFULL
 TITLE: Method for stimulation of lenticular natural gas formations
 INVENTOR(S): Nierode, Dale E., Kingwood, TX, United States
 Lamb, Walter J., Houston, TX, United States
 PATENT ASSIGNEE(S): Exxon Production Research Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5890536		19990406
APPLICATION INFO.:	US 1998-134659		19980814

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-57202	19970826 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Bagnell, David J.	
ASSISTANT EXAMINER:	Walker, Zakiya	
LEGAL REPRESENTATIVE:	Casamassima, S. J.	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	19 Drawing Figure(s); 9 Drawing Page(s)	
LINE COUNT:	1036	

AB A method for stimulating production from wells drilled into natural gas reservoirs characterized by lenticular deposits. The reservoir thickness through which the wells are drilled is divided into multi-stage zones that are further divided into single-stage zones. Each single-stage zone

is perforated and then fractured. The fracturing is conducted in multiple stages to sequentially fracture each of the single-stage zones within a multi-stage zone; the fracturing stages being separated by ball sealers. Well spacing may also be controlled to match fracture drainage and size of the lenticular deposits.

L11 ANSWER 5 OF 12 USPATFULL

ACCESSION NUMBER: 1998:144550 USPATFULL
TITLE: Underground formation producibility and water cut from nuclear magnetic resonance data using an isolated pore
INVENTOR(S): Bowers, Mark C., Houston, TX, United States
PATENT ASSIGNEE(S): Conoco Inc., Ponca City, OK, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5838155		19981117
APPLICATION INFO.:	US 1996-739665		19961031 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	O'Shea, Sandra L.		
ASSISTANT EXAMINER:	Eisenberg, Michael		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	478		

AB Potential producibility and the proportion of water and oil produced can be predicted for hydrocarbon bearing reservoirs using an isolated pore model and nuclear magnetic resonance data. The model is based on the use of two bulk volume irreducible/free fluid index cut off times, one based on small pores and the other based on large pores with a throat size that will not permit movement of fluids therefrom.

L11 ANSWER 6 OF 12 USPATFULL

ACCESSION NUMBER: 1998:102264 USPATFULL
TITLE: Method for inverting reflection trace data from 3-D and 4-D seismic surveys and identifying subsurface fluid and pathways in and among hydrocarbon reservoirs based on impedance models
INVENTOR(S): He, Wei, New Milford, NJ, United States
Anderson, Roger N., New York, NY, United States
PATENT ASSIGNEE(S): The Trustees of Columbia University in the City of New York, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5798982		19980825
APPLICATION INFO.:	US 1996-641069		19960429 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Moskowitz, Nelson		
LEGAL REPRESENTATIVE:	Baker & Botts, L.L.P.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	20 Drawing Figure(s); 12 Drawing Page(s)		
LINE COUNT:	1057		

AB A method is disclosed for inverting 3-D seismic reflection data obtained

from seismic surveys to derive impedance models for a subsurface region, and for inversion of multiple 3-D seismic surveys (i.e., 4-D seismic surveys) of the same subsurface volume, separated in time to allow for dynamic fluid migration, such that small scale structure and regions of fluid and dynamic fluid flow within the subsurface volume being studied can be identified. The method allows for the mapping and quantification of available hydrocarbons within a reservoir and is thus useful for hydrocarbon prospecting and reservoir management. An iterative seismic inversion scheme constrained by actual well log data which uses a time/depth dependent seismic source function is employed to derive impedance models from 3-D and 4-D seismic datasets. The impedance values can be region grown to better isolate the low impedance hydrocarbon bearing regions. Impedance data derived from multiple 3-D seismic surveys of the same volume can be compared to identify regions of dynamic evolution and bypassed pay. Effective Oil Saturation or net oil thickness can also be derived from the impedance data and used for quantitative assessment of prospective drilling targets and reservoir management.

L11 ANSWER 7 OF 12 USPATFULL

ACCESSION NUMBER: 1998:66276 USPATFULL

TITLE: Method for predicting, by means of an inversion technique, the evolution of the production of an underground reservoir

INVENTOR(S): Guerillot, Dominique, Paris, France
Roggero, Frederic, Pau, France

PATENT ASSIGNEE(S): Institute Francais du Petrole, Rueil-Malmaison, France
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5764515		19980609
APPLICATION INFO.:	US 1996-645070		19960513 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1995-6085	19950512
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	McElheny, Jr., Donald E.	
LEGAL REPRESENTATIVE:	Antonelli, Terry, Stout & Kraus, LLP	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 7 Drawing Page(s)	
LINE COUNT:	727	

AB A model for simulating the behaviour of an underground reservoir is defined from initial geologic knowledge and available data. It allows production forecasts to be achieved from parameters representative of the initial data. The method notably consists in defining one or

several possible production evolution scenarios by creating, for each of these scenarios, new production data corresponding to hypotheses on the

future states of the reservoir. For each scenario considered, it is checked whether it is possible to adjust the available parameters of the simulation model, considering the constraints of the initial geologic model, so that the simulation model reproduces both the production data measured and the data added. The method can be used to quantify uncertainties on the production forecasts by seeking the min/max extremes of the future production values. Application : production of hydrocarbons for example.

L11 ANSWER 8 OF 12 USPATFULL
 ACCESSION NUMBER: 97:55739 USPATFULL
 TITLE: Compliant tower
 INVENTOR(S): Morrison, Denby Grey, Houston, TX, United States
 Smolinski, Susan Lyon, Houston, TX, United States
 Marshall, Peter William, Northumberland, England
 Huete, David Armstrong, Spring, TX, United States
 Gonzalez, Romulo, Slidell, LA, United States
 PATENT ASSIGNEE(S): Shell Oil Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5642966		19970701
APPLICATION INFO.:	US 1995-553740		19951023 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-175470, filed on 30 Dec 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Ricci, John A.		
LEGAL REPRESENTATIVE:	Smith, Mark A.		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1,10,11		
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	725		

AB A compliant tower is disclosed having a foundation connected to a wide-bodied compliant framework with a plurality of vertically extending legs a minimum of horizontal bracing. The compliant framework is configured to maintain a substantially wide, open riser suspension corridor. A topside facility is supported by the compliant framework and a plurality of freely suspended production risers extend through the riser suspension corridor from the vicinity of the topside facility to communicate with the reservoir. These production risers are spaced to provide clearance to prevent riser interference in response to normal flexure of the compliant tower and normal environmental loads on the risers. A riser support assembly is configured to accomodate relative motion between the risers and the topside facility, supporting the production risers in tension near their upper ends to provide the principal load transfer between the riser and the compliant framework.

L11 ANSWER 9 OF 12 USPATFULL
 ACCESSION NUMBER: 93:59742 USPATFULL
 TITLE: Method for creating a numerical model of the physical properties within the earth
 INVENTOR(S): Boyd, Mark, Ponca City, OK, United States
 Hanson, Douglas W., Ponca City, OK, United States
 PATENT ASSIGNEE(S): Conoco Inc., Ponca City, OK, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5229976		19930720
APPLICATION INFO.:	US 1991-788406		19911106 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Lobo, Ian J.		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	531		

AB A method of translating a drawn or imagined model into a numerical

format. Working from a paper sketch or interpreted seismic display, the geological horizons and faults are digitized in any order. If the horizon is unbroken, it is digitized continuously as one piece, if it

is

broken by faulting, it is digitized as a series of elements. Digitizing ceases if the horizon terminates within the model. During preconditioning the boundaries of the model are added as another element. A search is performed and if intersecting elements are found, the shortest limb is deleted. A second search locates elements which do not terminate at an intersection. If the element is from a horizon, it is projected until it intersects another element, if an unconnected fault element, the element is deleted back to its first intersection point. The first phase of cell construction identifies segments which connect only to themselves and produces single segment cells. Remaining segments are used to construct cell units in a clockwise direction by determining the angles made between the final pair of points in the active segment and the first two points on all connecting segments, selecting the segment with the largest angle to continue building the cell. This process is repeated until the starting segment is again encountered. Physical properties are assigned to each cell. The cells are automatically split into microcells defining volumes of space with simply varying properties when the cell properties are convoluted.

L11 ANSWER 10 OF 12 USPATFULL

ACCESSION NUMBER: 84:38266 USPATFULL

TITLE: Oil recovery mining method and apparatus

INVENTOR(S): Ayler, Maynard F., 1315 Normandy Rd., Golden, CO, United States 80401
Vranesh, George, P.O. Box 871, Boulder, CO, United States 80306

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4458945		19840710
APPLICATION INFO.:	US 1981-307650		19811001 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Purser, Ernest R.		
LEGAL REPRESENTATIVE:	Helzer, Charles W.		
NUMBER OF CLAIMS:	63		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	2248		

AB New and improved techniques, systems and equipment for the practical underground mining of petroleum from both virgin and depleted oil fields

under certain geological conditions, are described. A method of drilling

relatively small diameter, drainage-type oil wells using a fluid and cutting control assembly from within an access underground drilled tunnel, is provided. The fluid and cutting control assembly facilitates the safe underground drilling and installation of the small diameter, drainage-type oil wells which can be operated either under the natural pressures occurring in the geological strata, as gravity drain wells or by suitable secondary treatment measures artificially pressurized to facilitate drainage of oil from oil bearing strata into which such

wells

are drilled. Techniques and equipment to facilitate the safe drilling

of

such wells, placing them into production and thereafter controlling operation of the mine workings in a safe and reliable manner, is described, together with the control system, sensors and other

equipment

required for safe installation and operation of an underground petroleum

mine.

L11 ANSWER 11 OF 12 USPATFULL
ACCESSION NUMBER: 74:59097 USPATFULL
TITLE: ELECTROPHOTOGRAPHIC DEVELOPING METHOD AND APPARATUS
INVENTOR(S): Fukushima, Osamu, Saitama, Japan
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Kanagawa, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3854977		19741217
APPLICATION INFO.:	US 1971-214247		19711230 (5)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1970-122800	19701230
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Sofocleous, Michael	
LEGAL REPRESENTATIVE:	Martin, J. T., Ferguson, Jr., Gerald J., Baker, Joseph J.	
NUMBER OF CLAIMS:	5	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	500	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In an electrophotographic developing apparatus where developing electrode rollers are disposed above driving rollers, and an electrophotographic sheet bearing an electrostatic latent image is passed therebetween the driving rollers are spaced, and in the spaces between the driving rollers other rollers are uniformly disposed to form with the driving rollers and with sideplates, a reservoir of liquid developer which is applied from above the latent image bearing sheet. Upon passage of the latent image bearing sheet between the rollers and through the liquid **reservoir, development** occurs. The method of developing comprising passing said latent image bearing sheet through such a developer reservoir.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 12 OF 12 INSPEC COPYRIGHT 2001 IEE
ACCESSION NUMBER: 1989:3428754 INSPEC
DOCUMENT NUMBER: C89046901
TITLE: Design **optimization** of new plants by reliability engineering methodologies: application to a subsea pumping station.
AUTHOR: Uguccioni, G. (Snamprogetti SpA, Milano, Italy); Zani, F.; Senni, S.
SOURCE: Reliability Data Collection and Use in Risk and Availability Assessment. Proceedings of the 6th EuReData Conference
Editor(s): Colombari, V.
Berlin, West Germany: Springer-Verlag, 1989.
p.489-508
of xiv+906 pp. 5 refs.
Conference: Siena, Italy, 15-17 March 1989
ISBN: 3-540-50834-1
DOCUMENT TYPE: Conference Article
TREATMENT CODE: Theoretical
COUNTRY: Germany, Federal Republic of
LANGUAGE: English

DN C89046901

AB The paper shows the main results of an application carried on in SNAMPROGETTI in the framework of SBS (Subsea Booster System) project involving the design of a remotely controlled pumping station to be installed in deep sea (up to -1000 m) for oil/gas **reservoirs development**. The installation and maintenance costs of the system require to ensure the system reliability; the design solutions are therefore defined on the basis of a reliability analysis. The procedure that has been applied starts from the reliability data calibration to enable, by FMEA, HAZOP and fault tree methods, the system availability evaluation and the identification of critical components. A sensitivity analysis is applied to the optimal design based on the expected reliability level.

=> D HIS

(FILE 'HOME' ENTERED AT 14:15:22 ON 24 JUL 2001)

FILE 'USPATFULL, INSPEC, EUROPATFULL' ENTERED AT 14:15:41 ON 24 JUL 2001

L1 169844 S RESERVOIR
L2 118408 S L1 AND (FLUID OR GAS)
L3 17328 S L2 AND DEVELOPMENT
L4 12570 S L3 AND CHARACTER?
L5 1180 S L4 AND CHARACTERIZATION
L6 468 S L5 AND OPTIMIZ?
L7 270 S L6 AND PERFORMANCE
L8 51 S L7 AND MANAG?
L9 42 S L8 AND PLAN#

=> D L9 1-42 IBIB ABS

L9 ANSWER 1 OF 42 USPATFULL

ACCESSION NUMBER: 2001:112396 USPATFULL

TITLE: Structured fischer-tropsch catalyst system and method

INVENTOR(S): Arcuri, Kym B, Tulsa, OK, United States

Agee, Kenneth L., Bixby, OK, United States

Agee, Mark A., Tulsa, OK, United States

PATENT ASSIGNEE(S): Syntroleum Corporation, Tulsa, OK, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6262131	B1	20010717
APPLICATION INFO.:	US 1999-455047		19991206 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-111312	19981207 (60)
	US 1999-148805	19990812 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Richter, Johann	
ASSISTANT EXAMINER:	Parsa, J.	
LEGAL REPRESENTATIVE:	Baker Botts L.L.P.	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 6 Drawing Page(s)	
LINE COUNT:	1557	

AB A Fischer-Tropsch catalyst for the conversion of synthesis gas into Fischer-Tropsch products includes a stationary Fischer-Tropsch catalyst having a voidage ratio greater than approximately 0.45 or 0.6 and may further have a catalyst concentration for a given reactor volume

of at least 10 percent. A Fischer-Tropsch catalyst has a structured shape promoting non-Taylor flow and/or producing a productivity in the range of 200-4000 vol CO/vol. Catalyst/hour or greater over at least a 600 hour run of a Fischer-Tropsch reactor with the catalyst therein. A system for converting synthesis gas into longer-chain hydrocarbon products through the Fisher-Tropsch reaction has a reactor for receiving synthesis gas directly or as a saturated

hydrocarbon liquid or a combination, and a stationary, structured Fischer-Tropsch catalyst disposed within the reactor for converting at least a portion of the synthesis gas into long chain hydrocarbons through Fischer-Tropsch reaction. A Fischer-Tropsch reactor system having a structured Fischer-Tropsch catalyst may have an all-liquid saturated reactant feed, an all gas reactant feed, or a plethora of combinations therebetween. The systems may or may not include heat removal devices. Methods of manufacturing catalysts and converting synthesis gas are also presented.

L9 ANSWER 2 OF 42 USPATFULL

ACCESSION NUMBER: 2001:54747 USPATFULL
 TITLE: Ink and media cartridge with axial ink chambers
 INVENTOR(S): Silverbrook, Kia, Sydney, Australia
 PATENT ASSIGNEE(S): Silverbrook Research Pty. Ltd., Balmain, Australia
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6217165	B1	20010417
APPLICATION INFO.:	US 1998-112783		19980710 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	AU 1997-7991	19970715
	AU 1998-1397	19980119
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Le, N.	
ASSISTANT EXAMINER:	Nguyen, Judy	
NUMBER OF CLAIMS:	12	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	232 Drawing Figure(s); 140 Drawing Page(s)	
LINE COUNT:	16923	

AB A detachable ink supply unit is disclosed for interconnection to a print

head for printing images. The supply unit including a print roll of print media onto which the print head prints images, and an ink cartridge located internally of the print roll and containing a plurality of ink supply reservoirs along an internal axis of the print roll. Each reservoir including an air hole at one end and a pierceable seal at another end for the insertion of an ink channel element for fluid communication of the

reservoir with the print head. Further, the air hole can be interconnected to a hydrophobic channel having a winding channel path so

as to minimize the possibilities of ink flow through the channel. The unit can further include a series of decurling rollers which pinch the print media and bend the print media in an opposite direction to the direction of bend of the print media on the print roll. The ink supply unit can include a cover portion having a slot defined therein for passage of the print media and the surface surrounding the slot can include a raised portion for engaging a corresponding portion of the print head unit for the accurate alignment of the supply unit relative to the print head.

L9 ANSWER 3 OF 42 USPATFULL

ACCESSION NUMBER: 2001:4530 USPATFULL
 TITLE: Methods and compositions relating to no-mediated cytotoxicity
 INVENTOR(S): Thigpen, Anice, Dallas, TX, United States
 Hohmeier, Hans-Ewald, Dallas, TX, United States

Newgard, Christopher B., Dallas, TX, United States
 Unger, Roger H., Dallas, TX, United States
 Shimabukuro, Michio, Okinawa, Japan
 Chen, Guoxun, Dallas, TX, United States
 Rhodes, Christopher J., Dallas, TX, United States
 Hugl, Sigrun R., Irving, TX, United States
 Cousin, Sharon, Irving, TX, United States
 Board of Regents, The University of Texas System,
 Austin, TX, United States (U.S. corporation)
 Betagene, Inc, Dallas, TX, United States (U.S.
 corporation)

PATENT ASSIGNEE(S):

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6171856	B1	20010109
APPLICATION INFO.:	US 1998-126109		19980730 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-55092	19970730 (60)
	US 1998-76676	19980303 (60)
DOCUMENT TYPE:	Patent	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Chin, Christopher L.	
ASSISTANT EXAMINER:	Cook, Lisa V.	
LEGAL REPRESENTATIVE:	Fulbright & Jaworski LLP	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	28 Drawing Figure(s); 22 Drawing Page(s)	
LINE COUNT:	6952	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods and compositions for the treatment of diabetes involving free radicals. In particular, the present invention is directed to the treatment or prophylactic intervention of diabetes. The present invention demonstrates that MnSOD can play a protective role against cytokine killing, and provides strategies for engineering cell lines as islet surrogates for transplantation therapy of diabetes mellitus. Further, the present invention shows that .beta.-cell destruction and dysfunction in adipogenic diabetes is mediated via fatty acids. Methods and compositions for ameliorating this disorder are provided herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 42 USPATFULL

ACCESSION NUMBER: 2000:174718 USPATFULL
 TITLE: Fluorocarbon compositions for pulmonary therapy
 INVENTOR(S): Sekins, K. Michael, San Diego, CA, United States
 Shaffer, Thomas H., Lansdowne, PA, United States
 Wolfson, Marla R., Wyndmoor, PA, United States
 PATENT ASSIGNEE(S): Alliance Pharmaceutical, Corp., San Diego, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6166092		20001226
APPLICATION INFO.:	US 1995-479615		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-424577, filed on 13 Apr 1995, now patented, Pat. No. US 5562608 which is a continuation of Ser. No. US 1992-920153, filed on 27 Jul 1992, now abandoned which is a continuation of Ser. No. US 1990-495566, filed on 19 Mar 1990, now abandoned which is a continuation-in-part of Ser. No. US		

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Cook, Rebecca
 LEGAL REPRESENTATIVE: Knobbe, Martens, Olson & Bear, LLP.
 NUMBER OF CLAIMS: 36
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 38 Drawing Figure(s); 29 Drawing Page(s)
 LINE COUNT: 2938

AB Biocompatible fluorocarbon compositions are provided which may be used for the delivery of bioactive agents to the pulmonary air passages of a patient. Preferred compositions comprise a fluorocarbon liquid carrier having a bioactive agent in a solid or immiscible liquid form distributed therein. The disclosed compositions allow for the selective delivery of bioactive agents in conjunction with liquid lavage and liquid ventilation for the treatment of ARDS and other pulmonary disorders.

L9 ANSWER 5 OF 42 USPATFULL

ACCESSION NUMBER: 2000:102059 USPATFULL
 TITLE: Matrices with memories and uses thereof
 INVENTOR(S): Nova, Michael P., Rancho Santa Fe, CA, United States
 Senyei, Andrew E., La Jolla, CA, United States
 Potash, Hanan, La Jolla, CA, United States
 PATENT ASSIGNEE(S): Irori, San Diego, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6100026		20000808
APPLICATION INFO.:	US 1996-633410		19960610 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 1996-US6145, filed on 25 Apr 1996 which is a continuation-in-part of Ser. No. US 1996-639813, filed on 2 Apr 1996, now abandoned which is a continuation-in-part of Ser. No. US 1995-567746, filed on 5 Dec 1995 which is a continuation-in-part of Ser. No. US 1995-538387, filed on 3 Oct 1995 which is a continuation-in-part of Ser. No. US 1995-480147, filed on 7 Jun 1995 Ser. No. Ser. No. US 1995-484486, filed on 7 Jun 1995 Ser. No. Ser. No. US 1995-484504, filed on 7 Jun 1995, now patented, Pat. No. US 5751629 Ser. No. Ser. No. US 1995-480196, filed on 7 Jun 1995 And Ser. No. US 1995-473660, filed on 7 Jun 1995 which is a continuation-in-part of Ser. No. US 1995-428662, filed on 25 Apr 1995, now		

patented,

Pat. No. US 5741462
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Zitomer, Stephanie W.
 LEGAL REPRESENTATIVE: Brown, Martin, Haller & McClain
 NUMBER OF CLAIMS: 24
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 32 Drawing Figure(s); 20 Drawing Page(s)
 LINE COUNT: 6973

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Combinations, called matrices with memories, of matrix materials that are encoded with an optically readable code are provided. The matrix materials are those that are used in as supports in solid phase chemical and biochemical syntheses, immunoassays and hybridization reactions. The matrix materials may additionally include fluophors or other luminescent moieties to produce luminescing matrices with memories. The memories

include electronic and optical storage media and also include optical memories, such as bar codes and other machine-readable codes. By virtue of this combination, molecules and biological particles, such as phage and viral particles and cells, that are in proximity or in physical contact with the matrix combination can be labeled by programming the memory with identifying information and can be identified by retrieving the stored information. Combinations of matrix materials, memories, and linked molecules and biological materials are also provided. The combinations have a multiplicity of applications, including combinatorial chemistry, isolation and purification of target macromolecules, capture and detection of macromolecules for analytical purposes, selective removal of contaminants, enzymatic catalysis, cell sorting, drug delivery, chemical modification and other uses. Methods for tagging molecules, biological particles and matrix support materials, immunoassays, receptor binding assays, scintillation proximity assays, non-radioactive proximity assays, and other methods are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 42 USPATFULL

ACCESSION NUMBER: 2000:95916 USPATFULL
 TITLE: Method for determining large-scale representative hydraulic parameters of a fractured medium
 INVENTOR(S): Noetinger, Benoit, Guichenne, France
 Estebenet, Thierry, Route de Lourdes, France
 PATENT ASSIGNEE(S): Institut Francais du Petrole, Cedex, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6094619		20000725
APPLICATION INFO.:	US 1998-109543		19980702 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1997-8634	19970704
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	McElheny, Jr., Donald E.	
LEGAL REPRESENTATIVE:	Antonelli, Terry, Stout & Kraus, LLP	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 3 Drawing Page(s)	
LINE COUNT:	571	

AB Method for determining, from a 3D image, the values of hydraulic parameters such as the large-scale equivalent permeability, the permeability of blocks and the matrix-fracture exchange coefficient α of a fractured porous medium such as a geologic formation. The method mainly comprises discretization of the medium by means of a grid pattern and fast and approximate solution, in this grid pattern, of equations modelling diffusion of the **fluids** in the medium, determination of the variation with time of a large-scale transfer function $(f(t), f(s))$ **characterizing the fluid flows** from the matrix to the fractures, by simulation of the movement of particles performing random walks in continuous time on said grid pattern and suitable processing of a state function $(\epsilon(\tau))$ indicative of the presence thereof either in the matrix or in a fracture. The method can be applied for large-scale modelling of fractured oil **reservoirs** allowing well test interpretation.

L9 ANSWER 7 OF 42 USPATFULL

ACCESSION NUMBER: 2000:87772 USPATFULL
 TITLE: **Fluid-jet** deposition of radioactive material

INVENTOR(S): for brachytherapy devices
 Carden, Jr., John L., Louvain-la-Neuve, Belgium
 Russell, Jr., John L., Louvain-la-Neuve, Belgium
 Fox, James Edward, Royston, United Kingdom
 Hudd, Alan Lionel, Nuthampstead, United Kingdom
 Willis, Michael, Histon, United Kingdom
 PATENT ASSIGNEE(S): International Brachytherapy s.a., United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6086942		20000711
APPLICATION INFO.:	US 1998-85357		19980527 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Beck, Shrive		
ASSISTANT EXAMINER:	Cleveland, Michael		
LEGAL REPRESENTATIVE:	Elman & Associates		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1396		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method and apparatus for precisely applying radioactive material to a substrate such as a brachytherapy device is disclosed. A radioactive **fluid** adapted to cure rapidly is deposited as discrete dots onto a surface with a **fluid-jet** printhead. The apparatus comprises a **fluid-jet** printhead in communication with a chamber containing radioactive **fluid** to be applied by the printhead. The printhead is microprocessor driven, and the microprocessor may be provided with feedback from a station where the radioactivity deposited on a preceding substrate in a batch is measured, permitting the system to be recalibrated on an ongoing basis as the batch of printed devices is produced. Compensation for attenuation of radiation by a casing may also be made part of the feedback technique. Also disclosed is a brachytherapy device having printed on a surface dots of radiation-emitting material, in a pattern comprising various bands, dots

or areas. **Fluids** suitable for printing by a **fluid-jet** printhead comprise a binder such as an acrylic resin or silicate, and a radioactive salt, compound or complex, dissolved in a radiation resistant solvent. Alternative **fluids** comprise radioactive salts, compounds, or complexes adsorbed onto a microparticulate carrier, or elemental microparticles, dispersed in a rapidly curable radiation-resistant **fluid** medium.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 8 OF 42 USPATFULL
 ACCESSION NUMBER: 2000:47032 USPATFULL
 TITLE: Glycoprotein B of the RFHV/KSHV subfamily of herpes viruses
 INVENTOR(S): Rose, Timothy M., 5045 NE. 70th St., Seattle, WA, United States 98115
 Bosch, Marnix L., 2601 78th Ave. NE., Bellevue, WA, United States 98004
 Strand, Kurt, 22101 SE. 32 St., Issaquah, WA, United States 98027

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6051375		20000418
APPLICATION INFO.:	US 1999-301390		19990428 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-720229, filed on 26 Sep		

	NUMBER	DATE
	-----	-----
PRIORITY INFORMATION:	US 1995-4297	19950926 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Mosher, Mary E.	
ASSISTANT EXAMINER:	Salimi, Ali R.	
LEGAL REPRESENTATIVE:	Fish & Richardson, P.C.	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	32 Drawing Figure(s); 33 Drawing Page(s)	
LINE COUNT:	7446	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to polynucleotides encoding Glycoprotein B from the RFHV/KSHV subfamily of gamma herpes viruses, three members of which are **characterized** in detail. DNA extracts were obtained from Macaque nemestrina and Macaque mulatta monkeys affected with retroperitoneal fibromatosis (RF), and human AIDS patients affected

with Kaposi's sarcoma (KS). The extracts were amplified using consensus-degenerate oligonucleotide probes designed from known protein and DNA sequences of gamma herpes viruses. The nucleotide sequences of

a 319 base pair fragment are about 76% identical between RFHV1 and KSHV, and about 60-63% identical with the closest related gamma herpes

viruses outside the RFHV/KSHV subfamily. Protein sequences encoded within these fragments are about 91% identical between RFHV1 and KSHV, and <.about.65% identical to that of other gamma herpes viruses. The full-length KSHV Glycoprotein B sequence comprises a transmembrane domain near the N-terminus, and a plurality of potentially antigenic sites in the extracellular domain. Materials and methods are provided

to

characterize Glycoprotein B encoding regions of members of the RFHV/KSHV subfamily, including but not limited to RFHV1, RFHV2, and KSHV

Peptides, polynucleotides, and antibodies of this invention can be used for diagnosing infection, and for eliciting an immune response against Glycoprotein B.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 42 USPATFULL

ACCESSION NUMBER: 2000:15318 USPATFULL

TITLE: Glycoprotein B of the RFHV/KSHV subfamily of herpes viruses

INVENTOR(S): Rose, Timothy M., Seattle, WA, United States
Bosch, Marnix L., Seattle, WA, United States
Strand, Kurt, Issaquah, WA, United States

PATENT ASSIGNEE(S): University of Washington, Seattle, WA, United States
(U.S. corporation)

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 6022542		20000208
APPLICATION INFO.:	US 1996-720229		19960926 (8)

	NUMBER	DATE
	-----	-----
PRIORITY INFORMATION:	US 1995-4297	19950926 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Mosher, Mary E.	

ASSISTANT EXAMINER: Salimi, Ali
LEGAL REPRESENTATIVE: Fish & Richardson P.C.
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 40 Drawing Figure(s); 33 Drawing Page(s)
LINE COUNT: 6825
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to polynucleotides encoding Glycoprotein B from the RFHV/KSHV subfamily of gamma herpes viruses, three members of which are **characterized** in detail. DNA extracts were obtained from Macaque nemestrina and Macaque mulatta monkeys affected with retroperitoneal fibromatosis (RF), and human AIDS patients affected with Kaposi's sarcoma (KS). The extracts were amplified using consensus-degenerate oligonucleotide probes designed from known protein and DNA sequences of gamma herpes viruses. The nucleotide sequences of a 319 base pair fragment are about 76% identical between RFHV1 and KSHV, and about 60-63% identical with the closest related gamma herpes viruses outside the RFHV/KSHV subfamily. Protein sequences encoded within these fragments are about 91% identical between RFHV1 and KSHV, and <.about.65% identical to that of other gamma herpes viruses. The full-length KSHV Glycoprotein B sequence comprises a transmembrane domain near the N-terminus, and a plurality of potentially antigenic sites in the extracellular domain. Materials and methods are provided to **characterize** Glycoprotein B encoding regions of members of the RFHV/KSHV subfamily, including but not limited to RFHV1, RFHV2, and KSHV. Peptides, polynucleotides, and antibodies of this invention can be used for diagnosing infection, and for eliciting an immune response against Glycoprotein B.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 42 USPATFULL

ACCESSION NUMBER: 2000:9487 USPATFULL
TITLE: Matrices with memories and uses thereof
INVENTOR(S): Nova, Michael P., Santa Fe, CA, United States
Parandoosh, Zahra, San Diego, CA, United States
Senyei, Andrew E., La Jolla, CA, United States
Xiao, Xiao-Yi, San Diego, CA, United States
David, Gary S., La Jolla, CA, United States
Satoda, Yozo, San Diego, CA, United States
Zhao, Chanfeng, San Diego, CA, United States
Potash, Hanan, La Jolla, CA, United States
PATENT ASSIGNEE(S): Irori, La Jolla, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6017496		20000125
APPLICATION INFO.:	US 1996-709435		19960906 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-711426, filed on 5 Sep 1996 Ser. No. Ser. No. US 1995-480147, filed on 7 Jun 1995 Ser. No. Ser. No. US 1995-484486, filed on 7 Jun 1995 Ser. No. Ser. No. US 1995-184504, filed on 7 Jun 1995, now patented, Pat. No. US 5751629 Ser. No. Ser. No. US 1995-480196, filed on 7 Jun 1995 Ser. No. Ser. No. US 1995-473660, filed on 7 Jun 1995 And Ser. No. WO 1996-US6145, filed on 25 Apr 1996, said Ser. No. US 711426 which is a continuation-in-part of Ser. No. US 1996-669252, filed on 24 Jun 1996 which is a continuation-in-part of Ser. No. US 1996-639813, filed on 2 Apr 1996, now abandoned which is a		

continuation-in-part of Ser. No. US 1995-567746, filed on 5 Dec 1995 which is a continuation-in-part of Ser. No. US 1995-538387, filed on Oct 1995, now patented, Pat. No. US 5874214 which is a continuation-in-part of Ser. No. US 1995-480147, filed on 7 Jun 1995, said Ser. No. US 480147 And Ser. No. US 480147 And Ser. No. US 484486 And Ser. No. US 484504 And Ser. No. US

480196

And Ser. No. US 473660 which is a continuation-in-part of Ser. No. US 1995-428662, filed on 25 Apr 1995, now patented, Pat. No. US 5741462

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Zitomer, Stephanie
LEGAL REPRESENTATIVE: Brown, Martin Haller & McClain
NUMBER OF CLAIMS: 31
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 45 Drawing Figure(s); 29 Drawing Page(s)
LINE COUNT: 8469

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Combinations, called matrices with memories, of matrix materials that are encoded with an optically readable code are provided. The matrix materials are those that are used in as supports in solid phase

chemical

and biochemical syntheses, immunoassays and hybridization reactions.

The

matrix materials may additionally include fluophors or other luminescent

moieties to produce luminescing matrices with memories. The memories include electronic and optical storage media and also include optical memories, such as bar codes and other machine-readable codes. By virtue of this combination, molecules and biological particles, such as phage and viral particles and cells, that are in proximity or in physical contact with the matrix combination can be labeled by programming the memory with identifying information and can be identified by retrieving the stored information. Combinations of matrix materials, memories, and linked molecules and biological materials are also provided. The combinations have a multiplicity of applications, including combinatorial chemistry, isolation and purification of target macromolecules, capture and detection of macromolecules for analytical purposes, selective removal of contaminants, enzymatic catalysis, cell sorting, drug delivery, chemical modification and other uses. Methods for tagging molecules, biological particles and matrix support materials, immunoassays, receptor binding assays, scintillation proximity assays, non-radioactive proximity assays, and other methods are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 11 OF 42 USPATFULL

ACCESSION NUMBER: 1999:171946 USPATFULL
TITLE: Glycoprotein B of the RFHV/KSHV subfamily of herpes viruses
INVENTOR(S): Rose, Timothy M., Seattle, WA, United States
Bosch, Marnix L., Bellevue, WA, United States
Strand, Kurt, Issaquah, WA, United States
PATENT ASSIGNEE(S): The University of Washington, Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6015565		19990118
APPLICATION INFO.:	US 1997-804439		19970221 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 1996-US15702, filed		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-4297	19950926 (60)
	US 1996-1148	19960711 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Eisenschenk, Frank C.	
ASSISTANT EXAMINER:	Salimi, Ali R.	
LEGAL REPRESENTATIVE:	Wetherell, Jr., JohnFish & Richardson P.C.	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	33 Drawing Figure(s); 34 Drawing Page(s)	
LINE COUNT:	7515	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to polynucleotides encoding Glycoprotein B from the RFHV/KSHV subfamily of gamma herpes viruses, three members of which are **characterized** in detail. DNA extracts were obtained from Macaque nemestrina and Macaque mulatta monkeys affected with retroperitoneal fibromatosis (RF), and human AIDS patients affected

with

Kaposi's sarcoma (KS). The extracts were amplified using consensus-degenerate oligonucleotide probes designed from known protein and DNA sequences of gamma herpes viruses. The nucleotide sequences of

a

319 base pair fragment are about 76% identical between RFHV1 and KSHV, and about 60-63% identical with the closest related gamma herpes

viruses

outside the RFHV/KSHV subfamily. Protein sequences encoded within these fragments are about 91% identical between RFHV1 and KSHV, and <.about.65% identical to that of other gamma herpes viruses. The full-length KSHV Glycoprotein B sequence comprises a transmembrane domain near the N-terminus, and a plurality of potentially antigenic sites in the extracellular domain. Materials and methods are provided

to

characterize Glycoprotein B encoding regions of members of the RFHV/KSHV subfamily, including but not limited to RFHV1, RFHV2, and

KSHV

Peptides, polynucleotides, and antibodies of this invention can be used for diagnosing infection, and for eliciting an immune response against Glycoprotein B.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 12 OF 42 USPATFULL

ACCESSION NUMBER: 1999:170403 USPATFULL
TITLE: Method and apparatus for holding cells
INVENTOR(S): Greenberger, Joel S., Sewickley, PA, United States
DiMilla, Paul A., Gibsonia, PA, United States
Domach, Michael M., Pittsburgh, PA, United States
Houck, Raymond K., Oakmont, PA, United States
PATENT ASSIGNEE(S): University of Pittsburgh, Pittsburgh, PA, United States
States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6008010		19991228
APPLICATION INFO.:	US 1996-741628		19961101 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Arthur, Lisa B.		
ASSISTANT EXAMINER:	Souaya, Jehanne		

LEGAL REPRESENTATIVE: Schwartz, Ansel M.
NUMBER OF CLAIMS: 42
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 2224

AB The present invention pertains to an apparatus for holding cells. The apparatus comprises a mechanism for incubating cells having a dynamically controlled closed environment in which the cells are grown, which are maintained in a desired condition and in which cells can be examined while the environment is dynamically controlled and maintained in the desired condition. The apparatus also comprises a mechanism for determining the state of the cells. The determining mechanism is in communication with the incubating mechanism. The present invention pertains to a method for holding cells. The method comprises the steps of incubating the cells in a dynamically controlled closed environment which is maintained in a desired condition and in which the cells can

be examined while the environment is dynamically controlled and maintained in the desired condition. Additionally, there is the step of determining the state of the cells.

L9 ANSWER 13 OF 42 USPATFULL

ACCESSION NUMBER: 1999:152791 USPATFULL
TITLE: Method for determining seismic data traveltime fields on a massively parallel computer
INVENTOR(S): Wang, David Y., Houston, TX, United States
Willen, Dennis E., Houston, TX, United States
PATENT ASSIGNEE(S): Exxon Production Research Company, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5991695		19991123
	WO 9705558		19970213
APPLICATION INFO.:	US 1998-117529		19980120 (9)
	WO 1996-US12261		19960725
			19980120 PCT 371 date
			19980120 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-1604	19950728 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	McElheny, Jr., Donald E.	
LEGAL REPRESENTATIVE:	Koch, S. P., Reid, F. E.	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 5 Drawing Page(s)	
LINE COUNT:	1004	

AB A method of determining traveltime fields for use in processing geophysical data. The method is implemented on a computer having massively parallel processors. The input to the method is a three-dimensional velocity model of a volume of the subsurface of the earth. The method assigns the traveltime calculations to groups of processors, which calculate traveltimes for individual shots. A preliminary simulation of the traveltime calculation process is performed to determine the number of processors required in each group. The groups of processors perform the traveltime calculations

independent of the other groups. Calculations are performed in spherical coordinates, with traveltimes interpolated to a rectangular grid for storage and subsequent use. The final traveltimes are compressed in a

differential format to reduce data storage and transfer requirements. A control process is used to dynamically assign calculation tasks to processor groups, thereby ensuring load balance across all groups and maximizing throughput of the massively parallel processors.

L9 ANSWER 14 OF 42 USPATFULL

ACCESSION NUMBER: 1999:121665 USPATFULL
 TITLE: Molecular cloning of a complimentary DNA sequence encoding a cuticle degrading protease produced by entomopathogenic fungi
 INVENTOR(S): St.Leger, Raymond J., Ithaca, NY, United States
 Roberts, Donald W., Ithaca, NY, United States
 Staples, Richard C., Ithaca, NY, United States
 PATENT ASSIGNEE(S): Boyce Thompson Institute for Plant Research, Inc., Ithaca, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5962765		19991005
APPLICATION INFO.:	US 1995-382505		19950202 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1991-739645, filed on 8 Aug 1991		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Lau, Kawai		
LEGAL REPRESENTATIVE:	Brown, Pinnisi & Michaels, PC		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 11 Drawing Page(s)		
LINE COUNT:	2541		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB We have studied the regulation of the extracellular chymoelastase protease (Prl) of *Metarhizium anisopliae*, an enzyme involved in the penetration of insect cuticle by *Metarhizium* and other entomopathogenic fungi. We report here the isolation and **characterization** of a Prl cDNA clone with a full length insert. Prl is synthesized as a large precursor (40.3 kDa) containing a signal peptide and a propeptide and the mature protein is predicted to have a relative molecular mass of 28.6 kDa. The primary structure of Prl shares extensive homology (30-60%) with enzymes of the subtilisin subclass of the serine endopeptidases and the serine, histidine and aspartyl components of the active site in subtilisins are preserved. The genes coding for chymoelastase or slightly altered versions thereof, can be used to transform various organisms (i.e. fungi, viruses, plants, bacteria, etc.) such that the transformed organisms are capable of producing chymoelastase in recoverable quantities. Fragments and derivatives of a DNA sequence coding for a chymoelastase could be used to code for a polypeptide having an activity which can: a) bind to insect cuticle; b) enhance signal processing of proteins; c) hydrolyse polypeptides; d) suppress protease expression; or e) be used as a probe to identify homologous genes in organisms. While chymoelastases and Prl have been previously isolated, new and novel uses for chymoelastase are disclosed, wherein the chymoelastase is used to selectively degrade protein in the presence of non-protein polymers. A new insecticide insecticide is disclosed which comprises a recombinant virus, microorganism, cell, **plant** or fungi infects, is eaten by or otherwise taken up by, an insect and expresses the enzyme Prl within said insect such that Prl activates a prophenoloxidase system within said insect.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 15 OF 42 USPATFULL

ACCESSION NUMBER: 1999:120827 USPATFULL

TITLE: Matrices with memories and uses thereof
 INVENTOR(S): Nova, Michael P., Rancho Santa Fe, CA, United States
 Parandoosh, Zahra, San Diego, CA, United States
 Senyei, Andrew E., La Jolla, CA, United States
 Xiao, Xiao-Yi, San Diego, CA, United States
 David, Gary S., La Jolla, CA, United States
 Satoda, Yozo, San Diego, CA, United States
 Zhao, Chanfeng, San Diego, CA, United States
 Potash, Hanan, La Jolla, CA, United States
 PATENT ASSIGNEE(S): Irori, San Diego, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5961923		19991005
APPLICATION INFO.:	US 1996-723423		19960930 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-428662, filed on 25 Apr 1995, now patented, Pat. No. US 5741462 Ser. No. Ser. No. US 1995-480147, filed on 7 Jun 1995 Ser. No. Ser. No. US 1995-484486, filed on 7 Jun 1995 Ser. No. Ser. No. US 1995-484504, filed on 7 Jun 1995, now patented, Pat. No. US 5751629 Ser. No. Ser. No. US 1995-480196, filed on 7 Jun 1995 Ser. No. Ser. No. US 1995-473660, filed on 7 Jun 1995 Ser. No. Ser. No. US 1995-538387, filed on 3 Oct 1995 Ser. No. Ser. No. US 1995-567746, filed on 5 Dec 1995 Ser. No. Ser. No. US 1996-639813, filed on 2 Apr 1996, now abandoned Ser. No. Ser. No. WO 1996-US6145, filed on 25 Apr 1996 Ser. No. Ser. No. US 1996-633410, filed on 10 Jun 1996 Ser. No. Ser. No. US 1996-669252, filed on 24 Jun 1996 Ser. No. Ser. No. US 1996-711426, filed on 6 Sep 1996 And Ser. No. US 1996-709435, filed on 6 Sep 1996 , said Ser. No. US 711426 Ser. No. Ser. No. US 669252 And		
Ser.	No. US 633410 which is a continuation-in-part of Ser. No. WO US9606145 which is a continuation-in-part of Ser. No. US 639813 which is a continuation-in-part of Ser. No. US 567746 which is a continuation-in-part of Ser. No. US 538387 which is a continuation-in-part of Ser. No. US 480147 Ser. No. Ser. No. US 484486 Ser.		
No.	Ser. No. US 484504 Ser. No. Ser. No. US 480196 And		
Ser.	No. US 473660 , said Ser. No. US 669252 which is a continuation-in-part of Ser. No. US 633410 , said Ser. No. US 709435 And Ser. No. US 711426 which is a continuation-in-part of Ser. No. WO US9606145 , said Ser. No. US 709435 which is a continuation-in-part of Ser. No. US 711426 , said Ser. No. WO US9606145 which is a continuation-in-part of Ser. No. US 538387 which is a continuation-in-part of Ser. No. US 480147 Ser. No. Ser. No. US 484486 Ser. No. Ser. No. US 484504		
Ser.	No. Ser. No. US 480196 And Ser. No. US 473660 , said Ser. No. US 538387 which is a continuation-in-part of Ser. No. US 428662 , said Ser. No. US 480147 Ser. No. Ser. No. US 484486 Ser. No. Ser. No. US 484504 And		
Ser.	No. US 473660 which is a continuation-in-part of Ser. No. US 428662		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Zitomer, Stephanie W.		
LEGAL REPRESENTATIVE:	Brown, Martin, Haller & McClain		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		

NUMBER OF DRAWINGS: 60 Drawing Figure(s); 35 Drawing Page(s)

LINE COUNT: 8751

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Combinations, called matrices with memories, of matrix materials that are encoded with an optically readable code are provided. The matrix materials are those that are used in as supports in solid phase

chemical

and biochemical syntheses, immunoassays and hybridization reactions.

The

matrix materials may additionally include fluophors or other luminescent

moieties to produce luminescing matrices with memories. The memories include electronic and optical storage media and also include optical memories, such as bar codes and other machine-readable codes. By virtue of this combination, molecules and biological particles, such as phage and viral particles and cells, that are in proximity or in physical contact with the matrix combination can be labeled by programming the memory with identifying information and can be identified by retrieving the stored information. Combinations of matrix materials, memories, and linked molecules and biological materials are also provided. The combinations have a multiplicity of applications, including combinatorial chemistry, isolation and purification of target macromolecules, capture and detection of macromolecules for analytical purposes, selective removal of contaminants, enzymatic catalysis, cell sorting, drug delivery, chemical modification and other uses. Methods for tagging molecules, biological particles and matrix support materials, immunoassays, receptor binding assays, scintillation proximity assays, non-radioactive proximity assays, and other methods are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 16 OF 42 USPATFULL

ACCESSION NUMBER: 1999:81924 USPATFULL

TITLE: DNA polymerase of gamma herpes viruses associated with Kaposi's sarcoma and retroperitoneal fibromatosis

INVENTOR(S): Rose, Timothy M., Seattle, WA, United States
Bosch, Marnix L., Bellevue, WA, United States
Strand, Kurt, Issaquah, WA, United States
Todaro, George J., Seattle, WA, United States

PATENT ASSIGNEE(S): University of Washington, Seattle, WA, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5925733		19990720
APPLICATION INFO.:	US 1996-680326		19960711 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-1148	19950714 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Stucker, Jeffrey	
ASSISTANT EXAMINER:	Bui, Phuong T.	
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	35 Drawing Figure(s); 35 Drawing Page(s)	
LINE COUNT:	7240	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides isolated polynucleotides encoding DNA polymerases of three members of a subfamily of gamma herpes viruses.

Two

were obtained from macaque monkeys affected with retroperitoneal

fibromatosis, the other from human AIDS patients affected with Kaposi's sarcoma. A 45 base pair fragment encoding a region near the active site of the DNA polymerase is 69-83% identical amongst the three viruses, but only 54-68% identical with other known gamma herpes sequences and <55% identical with alpha and beta herpes sequences. Also provided are polynucleotides encoding DNA polymerase from related viruses in the RFHV/KSHV subfamily. Polynucleotides prepared according to the sequence data can be used as reagents to detect and **characterize** related sequences. Such reagents may be used to detect members of the RFHV/KSHV subfamily, including but not limited to RFHV, RFHV2, and KSHV.

Corresponding polypeptides and peptide fragments may be obtained by expressing the polynucleotide or by chemical synthesis. They may be used for detecting specific antibody potentially present in the serum of infected subjects. They may also be used for designing or screening pharmaceutical compounds that limit viral replication by inhibiting DNA polymerase activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 17 OF 42 USPATFULL
 ACCESSION NUMBER: 1999:3875 USPATFULL
 TITLE: Apparatus and method for electrocoriolysis the separation of ionic substances from liquids by electromigration and coriolis force
 INVENTOR(S): Hanak, Joseph J., Ames, IA, United States
 PATENT ASSIGNEE(S): Apogee Corporation, Ames, IA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5858199		19990112
APPLICATION INFO.:	US 1996-678892		19960712 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-1485	19950717 (60)
	US 1996-9748	19960111 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Phasge, Arun S.	
LEGAL REPRESENTATIVE:	Zarley, McKee, Thomte, Voorhees, & Sease	
NUMBER OF CLAIMS:	57	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	20 Drawing Figure(s); 15 Drawing Page(s)	
LINE COUNT:	2305	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An apparatus and method for separating and removing ionizable components

dissolved in **fluids**, such as for example, water, by separating said ionizable substances into fractions by the action of electric current and of Coriolis force. Liquid containing ionizable components

is

continuously fed in and the purified solvent and the solute in a concentrated solution are continuously removed while the liquid is rotated. Compound centrifugal force or Coriolis force causes the concentrated solution to move to a location where it can be effectively and continuously removed as well as causes the depleted liquid to move to a separate location where it also can be effectively and continuously

removed. The invention can operate in several modes, the modes being electrolytic and electrostatic. The invention allows for almost

universal application to removal of ionizable components and provides a cost effective and energy efficient continuous process to do so.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 18 OF 42 USPATFULL

ACCESSION NUMBER: 1998:143904 USPATFULL
TITLE: Directed evolution of novel binding proteins
INVENTOR(S): Ladner, Robert Charles, Ijamsville, MD, United States
Guttermann, Sonia Kosow, Belmont, MA, United States
Roberts, Bruce Lindsay, Milford, MA, United States
Markland, William, Milford, MA, United States
Ley, Arthur Charles, Newton, MA, United States
Kent, Rachel Baribault, Boxborough, MA, United States
PATENT ASSIGNEE(S): Dyax, Corp., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5837500		19981117
APPLICATION INFO.:	US 1995-415922		19950403 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-9319, filed on 26 Jan 1993, now patented, Pat. No. US 5403484 which is a division of Ser. No. US 1991-664989, filed on 1 Mar 1991, now patented, Pat. No. US 5223409 which is a continuation-in-part of Ser. No. US 1990-487063, filed on 2 Mar 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-240160, filed on 2 Sep 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Ulm, John		
LEGAL REPRESENTATIVE:	Cooper, Iver P.		
NUMBER OF CLAIMS:	43		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 16 Drawing Page(s)		
LINE COUNT:	15973		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In order to obtain a novel binding protein against a chosen target, DNA molecules, each encoding a protein comprising one of a family of similar potential binding domains and a structural signal calling for the display of the protein on the outer surface of a chosen bacterial cell, bacterial spore or phage (genetic package) are introduced into a genetic package. The protein is expressed and the potential binding domain is displayed on the outer surface of the package. The cells or viruses bearing the binding domains which recognize the target molecule are isolated and amplified. The successful binding domains are then **characterized**. One or more of these successful binding domains is used as a model for the design of a new family of potential binding domains, and the process is repeated until a novel binding domain having a desired affinity for the target molecule is obtained. In one embodiment, the first family of potential binding domains is related to bovine pancreatic trypsin inhibitor, the genetic package is M13 phage, and the protein includes the outer surface transport signal of the M13 gene III protein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 19 OF 42 USPATFULL

ACCESSION NUMBER: 1998:91311 USPATFULL
TITLE: Apparatus for pulmonary therapy
INVENTOR(S): Sekins, K. Michael, San Diego, CA, United States

PATENT ASSIGNEE(S): Alliance Pharmaceutical Corp., San Diego, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5788665		19980804
APPLICATION INFO.:	US 1995-482198		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-424577, filed on 13 Apr 1995, now patented, Pat. No. US 5562608 which is a continuation of Ser. No. US 1992-920153, filed on 27 Jul 1992, now abandoned which is a continuation of Ser. No. US 1990-495566, filed on 19 Mar 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-399943, filed on 28 Aug 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Buiz, Michael Powell		
ASSISTANT EXAMINER:	Smith, Charlin		
LEGAL REPRESENTATIVE:	Knobbe, Martens, Olson & Bear LLP		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	38 Drawing Figure(s); 29 Drawing Page(s)		
LINE COUNT:	2856		
AB	An apparatus for producing a uniformly dispersed drug-containing phase within a continuous liquid delivery phase.		

L9 ANSWER 20 OF 42 USPATFULL
ACCESSION NUMBER: 1998:57729 USPATFULL
TITLE: Screening of microorganisms for bioremediation
INVENTOR(S): Jovanovich, Stevan B., Livermore, CA, United States
PATENT ASSIGNEE(S): Molecular Solutions, Livermore, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5756304		19980526
APPLICATION INFO.:	US 1995-502050		19950714 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Leary, Louise		
LEGAL REPRESENTATIVE:	Medlen & Carroll, LLP		
NUMBER OF CLAIMS:	32		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	24 Drawing Figure(s); 16 Drawing Page(s)		
LINE COUNT:	3248		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to the application of robotics to screen and **optimize** microorganisms for their bioremediation capabilities. In particular, the present invention provides methods to screen for the ability of microorganisms to metabolize particular compounds of interest in bioremediation applications. The present invention also provides a method for discovery of microorganisms useful for bioremediation and biomining, as well as other applications where microbial metabolism is useful for catalyzing chemical biotransformations.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 21 OF 42 USPATFULL
ACCESSION NUMBER: 1998:3964 USPATFULL
TITLE: Pulmonary delivery of therapeutic agent

INVENTOR(S): Sekins, K. Michael, San Diego, CA, United States
Shaffer, Thomas H., Lansdowne, PA, United States
PATENT ASSIGNEE(S): Wolfson, Marla R., Wyndmoor, PA, United States
Alliance Pharmaceutical Corp., San Diego, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5707352		19980113
APPLICATION INFO.:	US 1995-480455		19950607 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-424577, filed on 13 Apr 1995, now patented, Pat. No. US 5562608 which is a continuation of Ser. No. US 1992-920153, filed on 27 Jul 1992, now abandoned which is a continuation of Ser. No. US 1990-495566, filed on 19 Mar 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-399943, filed on 28 Mar 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Buiz, Michael Powell		
ASSISTANT EXAMINER:	Smith, Chalin		
LEGAL REPRESENTATIVE:	Knobbe, Martens, Olson & Bear, LLP		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	38 Drawing Figure(s); 29 Drawing Page(s)		
LINE COUNT:	2886		
AB	An apparatus for producing a uniformly dispersed drug-containing phase within a continuous liquid delivery phase.		

L9 ANSWER 22 OF 42 USPATFULL
ACCESSION NUMBER: 97:31898 USPATFULL
TITLE: Capillary sampling flow controller
INVENTOR(S): Simon, Philippe, Montreal, Canada
Farant, Jean-Pierre, Verdun, Canada
PATENT ASSIGNEE(S): Martinex R & D Inc., Montreal, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5621180		19970415
APPLICATION INFO.:	US 1996-646073		19960507 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1995-9577	19950511
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Raevis, Robert	
LEGAL REPRESENTATIVE:	Swabey Ogilvy Renault	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	20 Drawing Figure(s); 18 Drawing Page(s)	
LINE COUNT:	1125	
AB	A capillary sampling flow controller provides an improvement in the process of sampling or monitoring for the analysis of air and gas chemistries; a constant flow rate is used to introduce a specific volume of gas into a vessel or through a trapping media over the selected sampling period. The improvement employs calculated geometry of the capillaries employed to deliver the gas sample to the evacuated vessel. It can also include a pressure reading device installed between the vessel and the capillary, and a filter at the inlet. The length of capillary with available	

internal diameters is estimated mathematically and confirmed experimentally to achieve any sampling time using any size sampler. The flow rate obtained from the controller is constant over its operating range and is designed to meet a specific sampling duration to obtain long-term integrated samples. The sampling process becomes completely passive, precise, reliable and simple to operate.

L9 ANSWER 23 OF 42 USPATFULL

ACCESSION NUMBER: 96:101466 USPATFULL

TITLE: Directed evolution of novel binding proteins

INVENTOR(S): Ladner, Robert C., Ijamsville, MD, United States

Guterman, Sonia K., Belmont, MA, United States

Roberts, Bruce L., Milford, MA, United States

Markland, William, Milford, MA, United States

Ley, Arthur C., Newton, MA, United States

Kent, Rachel B., Boxborough, MA, United States

PATENT ASSIGNEE(S): Protein Engineering Corporation, Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5571698		19961105
APPLICATION INFO.:	US 1993-57667		19930618 (8)
DISCLAIMER DATE:	20100629		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1991-664989, filed on 1 Mar 1991, now patented, Pat. No. US 5223409 which is a continuation-in-part of Ser. No. US 1990-487063, filed on 2 Mar 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-240160, filed on 2 Sep 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Ulm, John		
LEGAL REPRESENTATIVE:	Cooper, Iver P.		
NUMBER OF CLAIMS:	83		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 16 Drawing Page(s)		
LINE COUNT:	15323		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	In order to obtain a novel binding protein against a chosen target, DNA molecules, each encoding a protein comprising one of a family of similar potential binding domains and a structural signal calling for the display of the protein on the outer surface of a chosen bacterial cell, bacterial spore or phage (genetic package) are introduced into a genetic package. The protein is expressed and the potential binding domain is displayed on the outer surface of the package. The cells or viruses bearing the binding domains which recognize the target molecule are isolated and amplified. The successful binding domains are then characterized. One or more of these successful binding domains is used as a model for the design of a new family of potential binding domains, and the process is repeated until a novel binding domain having a desired affinity for the target molecule is obtained. In one embodiment, the first family of potential binding domains is related to bovine pancreatic trypsin inhibitor, the genetic package is M13 phage, and the protein includes the outer surface transport signal of the M13 gene III protein.		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 24 OF 42 USPATFULL

ACCESSION NUMBER: 96:91531 USPATFULL
TITLE: Apparatus for pulmonary delivery of drugs with simultaneous liquid lavage and ventilation
INVENTOR(S): Sekins, K. Michael, San Diego, CA, United States
Shaffer, Thomas H., Lansdowne, PA, United States
Wolfson, Marla R., Wyndmoor, PA, United States
PATENT ASSIGNEE(S): BioPulmonics, Inc., Redmond, WA, United States (U.S. corporation)
Temple University, Philadelphia, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5562608		19961008
APPLICATION INFO.:	US 1995-424577		19950413 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1992-920153, filed on 27 Jul 1992, now abandoned which is a continuation of Ser. No. US 1990-495566, filed on 19 Mar 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-399943, filed on 28 Aug 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Rosenbaum, C. Fred		
ASSISTANT EXAMINER:	Smith, Chalin		
LEGAL REPRESENTATIVE:	Knobbe, Martens, Olson & Bear		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	38 Drawing Figure(s); 29 Drawing Page(s)		
LINE COUNT:	2866		
AB	An apparatus for producing a uniformly dispersed drug-containing phase within a continuous liquid delivery phase.		

L9 ANSWER 25 OF 42 USPATFULL

ACCESSION NUMBER: 94:62476 USPATFULL
TITLE: Absorbent foam materials for aqueous body fluids and absorbent articles containing such materials
INVENTOR(S): DesMarais, Thomas A., Norwood, OH, United States
Stone, Keith J., Fairfield, OH, United States
Thompson, Hugh A., Fairfield, OH, United States
Young, Gerald A., Cincinnati, OH, United States
LaVon, Gary D., Harrison, OH, United States
Dyer, John C., Cincinnati, OH, United States
PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5331015		19940719
APPLICATION INFO.:	US 1993-156858		19931123 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-42363, filed on 2 Apr 1993, now patented, Pat. No. US 5268224		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Foelak, Morton		
LEGAL REPRESENTATIVE:	Gutttag, Eric W., Linman, E. Kelly		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	2319		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	Disclosed are absorbent foam materials suitable for use as or in the		

absorbent cores of absorbent articles, such as diapers which absorb and retain aqueous body **fluids**. Such foam materials comprise hydrophilic, flexible open-celled structures which are preferably prepared by polymerizing high internal phase (HIPE) water-in-oil emulsions. Such foam materials have a pore volume of from about 12 to 100 mL/g, and a capillary suction specific surface area of from about 0.5 to 5.0 m²/g. These materials also exhibit a resistance to compression deflection such that a confining pressure of 5.1 kPa produces after 15 minutes a strain of from about 5% to 95% compression when the material is saturated at 37.degree. C. to its free absorbent capacity with synthetic urine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 26 OF 42 USPATFULL

ACCESSION NUMBER: 93:102637 USPATFULL

TITLE: Absorbent foam materials for aqueous body **fluids** and absorbent articles containing such materials

INVENTOR(S): DesMarais, Thomas A., Norwood, OH, United States
Stone, Keith J., Fairfield, OH, United States
Thompson, Hugh A., Fairfield, OH, United States
Young, Gerald A., Cincinnati, OH, United States
LaVon, Gary D., Harrison, OH, United States
Dyer, John C., Cincinnati, OH, United States

PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5268224		19931207
APPLICATION INFO.:	US 1993-42363		19930402 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1991-743839, filed on 12 Aug 1991		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Foelak, Morton		
LEGAL REPRESENTATIVE:	Gutttag, Eric W.		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	2322		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are absorbent foam materials suitable for use as or in the absorbent cores of absorbent articles, such as diapers which absorb and retain aqueous body **fluids**. Such foam materials comprise hydrophilic, flexible open-celled structures which are preferably prepared by polymerizing high internal phase (HIPE) water-in-oil emulsions. Such foam materials have a pore volume of from about 12 to 100 mL/g, and a capillary suction specific surface area of from about 0.5 to 5.0 m²/g. These materials also exhibit a resistance to compression deflection such that a confining pressure of 5.1 kPa produces after 15 minutes a strain of from about 5% to 95% compression when the material is saturated at 37.degree. C. to its free absorbent capacity with synthetic urine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 27 OF 42 USPATFULL

ACCESSION NUMBER: 93:93835 USPATFULL

TITLE: Absorbent foam materials for aqueous body **fluids** and absorbent articles containing such materials

INVENTOR(S): DesMarais, Thomas A., Norwood, OH, United States
Stone, Keith J., Fairfield, OH, United States

Thompson, Hugh A., Fairfield, OH, United States
 Young, Gerald A., Cincinnati, OH, United States
 LaVon, Gary D., Harrison, OH, United States
 Dyer, John C., Cincinnati, OH, United States
 PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5260345		19931109
APPLICATION INFO.:	US 1991-743839		19910812 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Lesmes, George F.		
ASSISTANT EXAMINER:	Raimund, Chris		
LEGAL REPRESENTATIVE:	Guttag, Eric W.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	2216		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are absorbent foam materials suitable for use as or in the absorbent cores of absorbent articles, such as diapers which absorb and retain aqueous body fluids. Such foam materials comprise hydrophilic, flexible open-celled structures which are preferably prepared by polymerizing high internal phase (HIPE) water-in-oil emulsions. Such foam materials have a pore volume of from about 12 to 100 mL/g, and a capillary suction specific surface area of from about 0.5 to 5.0 m²/g. These materials also exhibit a resistance to compression deflection such that a confining pressure of 5.1 kPa produces after 15 minutes a strain of from about 5% to 95% compression when the material is saturated at 37.degree. C. to its free absorbent capacity with synthetic urine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 28 OF 42 USPATFULL

ACCESSION NUMBER: 93:52487 USPATFULL

TITLE: Directed evolution of novel binding proteins

INVENTOR(S): Ladner, Robert C., Ijamsville, MD, United States
 Guterman, Sonia K., Belmont, MA, United States
 Roberts, Bruce L., Milford, MA, United States
 Markland, William, Milford, MA, United States
 Ley, Arthur C., Newton, MA, United States
 Kent, Rachel B., Boxborough, MA, United States

PATENT ASSIGNEE(S): Protein Engineering Corp., Cambridge, MA, United States

(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5223409		19930629
APPLICATION INFO.:	US 1991-664989		19910301 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1990-487063, filed on 2 Mar 1990, now abandoned And a		
continuation-in-part	of Ser. No. US 1988-240160, filed on 2 Sep 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hill, Jr., Robert J.		
ASSISTANT EXAMINER:	Ulm, John D.		
LEGAL REPRESENTATIVE:	Cooper, Iver P.		
NUMBER OF CLAIMS:	66		
EXEMPLARY CLAIM:	1		

NUMBER OF DRAWINGS: 16 Drawing Figure(s); 16 Drawing Page(s)

LINE COUNT: 15410

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In order to obtain a novel binding protein against a chosen target, DNA molecules, each encoding a protein comprising one of a family of similar potential binding domains and a structural signal calling for the display of the protein on the outer surface of a chosen bacterial cell, bacterial spore or phage (genetic package) are introduced into a genetic package. The protein is expressed and the potential binding domain is displayed on the outer surface of the package. The cells or viruses bearing the binding domains which recognize the target molecule are isolated and amplified. The successful binding domains are then **characterized**. One or more of these successful binding domains is used as a model for the design of a new family of potential binding domains, and the process is repeated until a novel binding domain having a desired affinity for the target molecule is obtained. In one embodiment, the first family of potential binding domains is related to bovine pancreatic trypsin inhibitor, the genetic package is M13 phage, and the protein includes the outer surface transport signal of the M13 gene III protein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 29 OF 42 USPATFULL

ACCESSION NUMBER: 92:98804 USPATFULL

TITLE: Separation by carrier mediated transport

INVENTOR(S): Cohen, Charles, Medway, MA, United States
Dishman, Robert A., Concord, MA, United States
Huston, James S., Chestnut Hill, MA, United States
Bratzler, Robert L., Concord, MA, United States
Dodds, David R., Millis, MA, United States
Zepp, Charles M., Berlin, MA, United States

PATENT ASSIGNEE(S): Creative BioMolecules, Inc., Hopkinton, MA, United States (U.S. corporation)
Sepracor, Inc., Marlborough, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5167824		19921201
APPLICATION INFO.:	US 1990-479935		19900214 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Spear, Frank		
LEGAL REPRESENTATIVE:	Testa, Hurwitz & Thibault		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	7		
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 13 Drawing Page(s)		
LINE COUNT:	2028		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are processes and apparatus for separating a desired solute, such as an optically active isomer, from a complex mixture using carrier facilitated transport in an immobilized liquid membrane or carrier facilitated solvent extraction. The carrier is a binding protein selected and/or engineered to immunochemically reversibly bind to the solute and to have a significant solubility in the extracting solvent or immobilized liquid membrane.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 30 OF 42 USPATFULL

ACCESSION NUMBER: 92:88649 USPATFULL

TITLE: Lung cancer hyperthermia via ultrasound and/or convection with perfluorochemical liquids

INVENTOR(S): Sekins, K. Michael, Bellevue, WA, United States
Shaffer, Thomas H., Lansdowne, PA, United States
Wolfson, Marla R., Wyndmoor, PA, United States

PATENT ASSIGNEE(S): Biopulmonics, Inc., Redmond, WA, United States (U.S. corporation)
Temple University - Of the Commonwealth System of Higher Education, Philadelphia, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5158536		19921027
APPLICATION INFO.:	US 1990-495817		19900319 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1989-399943, filed on 28 Aug 1989		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Pellegrino, Steven C.		
ASSISTANT EXAMINER:	Rafa, Michael		
LEGAL REPRESENTATIVE:	Seidel, Gonda, Lavorgna & Monaco		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	37 Drawing Figure(s); 28 Drawing Page(s)		
LINE COUNT:	2787		

AB A hyperthermic treatment of lung cancer, by temporarily filling with a liquid medium preselected pulmonary air passages adjoining pulmonary tissues containing malignant cells, circulating exogenously heated liquid medium at from about 41.degree. to ab

This invention was made with government support under Small Business Innovation Research Program Grant No. 1 R43 CA48611-01 awarded by the Public Health Service, Department of Health and Human Services. The government has certain rights in the invention.

L9 ANSWER 31 OF 42 USPATFULL

ACCESSION NUMBER: 91:86636 USPATFULL

TITLE: Nickel-hydrogen battery with oxygen and electrolyte management features

INVENTOR(S): Sindorf, John F., Pewaukee, WI, United States

PATENT ASSIGNEE(S): Globe-Union Inc., Milwaukee, WI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5059496		19911022
APPLICATION INFO.:	US 1989-328117		19890323 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kalafut, Stephen J.		
LEGAL REPRESENTATIVE:	Foley & Lardner		
NUMBER OF CLAIMS:	32		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	913		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A nickel-hydrogen battery or cell having one or more pressure vessels containing hydrogen gas and a plurality of cell-modules therein. Each cell-module includes a configuration of cooperatively associated oxygen and electrolyte mangement and component alignment

features. A cell-module having electrolyte includes a negative electrode, a positive electrode adapted to facilitate oxygen diffusion, a separator disposed between the positive and negative electrodes for separating them and holding electrolyte for ionic conductivity, an absorber engaging the surface of the positive electrode facing away from the separator for providing electrolyte to the positive electrode, and a pair of surface-channeled diffusion screens for enclosing the positive and negative electrodes, absorber, and separator and for maintaining proper alignment of these components. The screens, formed in the shape of a pocket by intermittently sealing the edges together along as many as three sides, permit hydrogen gas to diffuse therethrough to the negative electrodes, and prevent the edges of the separator from swelling. Electrolyte is contained in the cell-module, absorbed by the electrodes, the separator and the absorber.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 32 OF 42 USPATFULL

ACCESSION NUMBER: 91:34131 USPATFULL
 TITLE: Biogenic amine assay using HPLC-ECD
 INVENTOR(S): Damjanovic, Dragana, 10101 Saskatchewan Drive, Apt. 1601, Edmonton, Alberta, Canada T6E 4R6

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5011608		19910430
APPLICATION INFO.:	US 1988-273449		19881118 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fisher, Richard V.		
ASSISTANT EXAMINER:	McCarthy, Neil M.		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis		
NUMBER OF CLAIMS:	60		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	13 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	4942		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for assaying compounds belonging to the group biogenic amines and including catecholamines, indoleamines, their metabolites and derivatives, and other small molecular weight compounds using a boric acid extraction method followed by high pressure liquid chromatographic separation in conjunction with electrochemical detection. The method utilizes high purity chemical and liquid components, a microparticulate-silica bonded phenyl stationary phase in the chromatography column and special cleaning and maintenance measures for the various components of the assaying apparatus which result in reduced baseline noise and allow the electrochemical cell to be operated at a sensitivity of one nanoamp or less full scale deflection on a continuous basis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 33 OF 42 USPATFULL

ACCESSION NUMBER: 87:58760 USPATFULL
 TITLE: System and method for operating a steam turbine with digital computer control and with improved monitoring
 INVENTOR(S): Jones, Donald J., Pittsburgh, PA, United States
 PATENT ASSIGNEE(S): Westinghouse Electric Corp., Pittsburgh, PA, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 4687946 198708
 APPLICATION INFO.: US 1972-247600 197204 (6)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Shoop, Jr., William M.
 ASSISTANT EXAMINER: Duncanson, Jr., W. E.
 LEGAL REPRESENTATIVE: Schron, D.
 NUMBER OF CLAIMS: 13
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 73 Drawing Figure(s); 44 Drawing Page(s)
 LINE COUNT: 2696

AB A steam generator in an electric power generating system is controlled by controlling turbine steam flow with control signals generated by a programmed digital computer system during startup, synchronization and load operation. The digital computer control signals are generated as a function of monitored turbine system conditions and parameters, the digital computer having means for interrupting the normal computing of the control signals when predetermined operating conditions are monitored. Turbine system parameter signals are periodically scanned

and

operated on so as to condition them for use in generating the control signals.

L9 ANSWER 34 OF 42 USPATFULL

ACCESSION NUMBER: 81:26390 USPATFULL

TITLE: System and method for starting, synchronizing and operating a steam turbine with digital computer

control

INVENTOR(S): Uram, Robert, East Pittsburgh, PA, United States
 Giras, Theodore C., Pittsburgh, PA, United States

PATENT ASSIGNEE(S): Westinghouse Electric Corp., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4267458		19810512
APPLICATION INFO.:	US 1973-408962		19731023 (5)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1972-247877, filed on 26 Apr 1972, now abandoned which is a		
continuation-in-part	of Ser. No. US 1972-247440, filed on 25 Apr 1972, now abandoned which is a continuation-in-part of Ser. No. US 1972-246900, filed on 24 Apr 1972, now abandoned		

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Rubinson, Gene Z.
 ASSISTANT EXAMINER: Redman, John W.
 LEGAL REPRESENTATIVE: Possessky, E. F.
 NUMBER OF CLAIMS: 15
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 130 Drawing Figure(s); 97 Drawing Page(s)
 LINE COUNT: 8273

AB Steam flow and pressure conditions needed in a turbine to satisfy the speed and load demand of an electric power generating system are controlled by a programmed digital computer system during start-up, synchronization and load operation. Manual backup control is provided for the computer control. Throttle valve tests are provided under digital control and transfers are made to manual backup control if predetermined task errors occur.

L9 ANSWER 35 OF 42 USPATFULL

ACCESSION NUMBER: 80:50055 USPATFULL

TITLE: Systems and method for organizing computer programs
for

control operating a steam turbine with digital computer

control

INVENTOR(S): Uram, Robert, East Pittsburgh, PA, United States
Tanco, Juan J., Buenos Aires, Argentina

PATENT ASSIGNEE(S): Westinghouse Electric Corp., Pittsburgh, PA, United
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4227093		19801007
APPLICATION INFO.:	US 1973-391406		19730824 (5)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1972-247887, filed on 26 Apr 1972, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Truhe, J. V.		
ASSISTANT EXAMINER:	Redman, J. W.		
LEGAL REPRESENTATIVE:	Possessky, E. F.		
NUMBER OF CLAIMS:	43		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	103 Drawing Figure(s); 73 Drawing Page(s)		
LINE COUNT:	3596		

AB Steam flow and pressure conditions needed in a turbine to satisfy the
speed and load demand of an electric power generating system are
controlled by a programmed digital computer system during start-up,
synchronization and operation. Manual backup control is provided for
the
computer control. An operator interface is provided with the computer
through a panel and various communication devices.

L9 ANSWER 36 OF 42 EUROPATFULL COPYRIGHT 2001 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 1028320 EUROPATFULL EW 200033 FS OS

TITLE: Method of operating and automated, continuous and
random

access analytical system capable of simultaneously
effecting multiple assays in plurality of liquid
samples.

Betriebsverfahren und automatisches, kontinuierliches,
analytisches System mit "Random Access" zur
gleichzeitigen Durchfuehrung zahlreicher Versuche an
einer Vielzahl fluessiger Proben.

Methode d'operation et systeme analytique automatique
continu a acces aleatoire caueable d'effectuer
simultanement de multiples essais sur une pluralite
d'echantillons liquides.

INVENTOR(S): Clark, Frederick L., 2712 Chamberlain Circle, Plano, TX
75023, US;

Clemens, John M., 3250 Mini Drive, Wadsworth, IL 60083,
US;

Hance, Robert B., 1129 Maple Avenue, Evanston, IL

60202,

US;

Hendrick, Kendall B., 1335 Forest Lane, Southlake, TX
76092, US;

Tayi, Apparao, 846 Langley Court, Grayslake, IL 60030,
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75208, US;

Lagocki, Peter A., 225 North Hamilton Avenue, Park
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 75063, US;
 McDowell, Douglas D., 17697 West Warren, Wildwood, IL
 60030, US;
 Merriam, Richard A., 9925 Lakedale Drive, Dallas, TX
 75218, US;
 Moore, Larry W., 2713 Hunters Creek, Plano, TX 75075,
 US;
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 76118, US;
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 Zurich, IL 60061, US;
 Raymoure, William J., 352 Briar Lane, Lake Bluff, IL
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 US;
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 60046,
 US;
 Walker, Edna S., 3231 West Warner, Chicago, IL 60618,
 US;
 Vaught, James A., 908 Rosewood Court, Euless, TX 76039,
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 Vickstrom Richard L., 635 Birch Street, Algonquin, IL
 60102, US;
 Walker, Donny Ray, 308 Forestcrest, Coppel, TX 75019,
 US;
 Watkins, William E. III, 1024 Tanglewood Drive, Cedar
 Hill, TX 75104, US;
 Winter, Gary E., 1407 Hillcrest Avenue, Hanover Park,
 IL
 60103, US;
 Wohlford, Robert A., 626 Mills Lane, Irving, TX 75062,
 US;
 Clift, Gilbert, 4514 Live Oak, Mesquite, TX 75150, US;
 Cloonan, Kevin M., 14 South Valley View, Round Lake, IL
 60073, US;
 Mitchell, James E., 184 River Road, Lake Barrington, IL
 60010, US;
 Stanton, Alyn K., 18 Little Bend Road, Lake Barrington,
 IL 60010, US;
 Yost, David A., 19617 Selby Avenue, Poolesville, MD
 20837, US;
 Hills, David B., 3305 Swanson Drive, Plano, TX 75025,
 US
 PATENT ASSIGNEE(S): ABBOTT LABORATORIES, CHAD-0377/AP6D-2, One Abbott Park
 Road, Abbott Park, Illinois 60064-3500, US
 PATENT ASSIGNEE NO: 225076
 AGENT: Modiano, Guido, Dr.-Ing. et al., Modiano, Josif,
 Pisanty
 & Staub, Baaderstrasse 3, 80469 Muenchen, DE
 AGENT NUMBER: 40786
 OTHER SOURCE: BEPA2000062 EP 1028320 A2 0110
 SOURCE: Wila-EPZ-2000-H33-T2a
 DOCUMENT TYPE: Patent
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES: R AT; R BE; R CH; R DE; R ES; R FR; R GB; R IT; R LI; R
NL; R IT; R SI
PATENT INFO.PUB.TYPE: EPA2 EUROPÄISCHE PATENTANMELDUNG
PATENT INFORMATION:

	PATENT NO	KIND DATE
	EP 1028320	A2 20000816
'OFFENLEGUNGS' DATE:		20000816
APPLICATION INFO.:	EP 2000-108051	19940922
PRIORITY APPLN. INFO.:	US 1993-126411	19930924
RELATED DOC. INFO.:	EP 720747	DIV

L9 ANSWER 37 OF 42 EUROPATFULL COPYRIGHT 2001 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 1022326 EUROPATFULL EW 200030 FS OS
TITLE: Hard surface cleaning compositions comprising modified
alkylbenzene sulfonates.
Reinigungszusammensetzungen fuer harte Oberflaechen
enthaltend modifizierte Alkylbenzylsulfonate.
Compositions de nettoyage de surfaces dures contenant
des alkylbenzenes sulfonates modifies.
INVENTOR(S): Kott, Kevin Lee, 2920 Bentbrook Drive, Cincinnati,
Ohio

45251, US;
Schneibel, Jeffrey John, 6651 Miami Trails Drive,
Loveland, Ohio 45140, US;
Severson, Roland George, 10184 Amberwood Ct.,
Cincinnati, Ohio 45241, US;
Cripe, Thomas Anthony, 599 Three Chimneys Lane,
Loveland, Ohio 45140-7345, US;
Burckett-St.Laurent, James C.T.R., 11477 Gideon Lane,
Cincinnati, Ohio 45249, US;
Morelli, Joseph Paul, 541 Howell Street, Cincinnati,
Ohio 45220, US
PATENT ASSIGNEE(S): THE PROCTER & GAMBLE COMPANY, One Procter & Gamble
Plaza, Cincinnati, Ohio 45202, US
PATENT ASSIGNEE NO: 200173
AGENT: Canonici, Jean-Jacques et al., BVBA Procter & Gamble
Europe SPRL, Temselaan 100, 1853 Strombeek-Bever, BE
57865
AGENT NUMBER:
OTHER SOURCE: BEPA2000056 EP 1022326 A1 0087
SOURCE: Wila-EPZ-2000-H30-T1a
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R
GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R
SE; R AL; R LT; R LV; R MK; R RO; R SI
PATENT INFO.PUB.TYPE: EPA1 EUROPÄISCHE PATENTANMELDUNG
PATENT INFORMATION:

	PATENT NO	KIND DATE
	EP 1022326	A1 20000726
'OFFENLEGUNGS' DATE:		20000726
APPLICATION INFO.:	EP 1999-204308	19991214
PRIORITY APPLN. INFO.:	US 1999-116508	19990120

L9 ANSWER 38 OF 42 EUROPATFULL COPYRIGHT 2001 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 1022325 EUROPATFULL EW 200030 FS OS
TITLE: Hard surface cleaning compositions comprising modified
alkylbenzene sulfonates.

Harte Oberflaechenreiniger enthaltend modifizierte Alkylbenzolsulfonate.

Compositions detergentes pour surfaces dures comprenant des sulfonates d'alkyl benzene.

INVENTOR(S):

Kott, Kevin Lee, 2920 Bentbrook Drive, Cincinnati, Ohio 45251, US;

Schneibel, Jeffrey John, 6651 Miami Trails Drive, Loveland, Ohio 45140, US;

Severson, Roland George, 10184 Amberwood Ct., Cincinnati, Ohio 45241, US;

Cripe, Thomas Anthony, 599 Three Chimneys Lane, Loveland, Ohio 45140-7345, US;

Burckett-St.Laurent, James C.T.R., 11477 Gideon Lane, Cincinnati, Ohio 45220, US;

Morelli, Joseph Paul, 541 Howell Street, Cincinnati, Ohio 45220, US

PATENT ASSIGNEE(S):

The Procter & Gamble Company, One Procter & Gamble Plaza, Cincinnati, Ohio 45202, US

PATENT ASSIGNEE NO:

200171

AGENT:

Canonici, Jean-Jacques et al., BVBA Procter & Gamble Europe SPRL, Temselaan 100, 1853 Strombeek-Bever, BE 57865

AGENT NUMBER:

OTHER SOURCE:

BEPA2000056 EP 1022325 A2 0079

SOURCE:

Wila-EPZ-2000-H30-T1a

DOCUMENT TYPE:

Patent

LANGUAGE:

Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES:

R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO; R SI

PATENT INFO.PUB.TYPE:

EPA2 EUROPAEISCHE PATENTANMELDUNG

PATENT INFORMATION:

PATENT NO

KIND DATE

EP 1022325

A2 20000726

'OFFENLEGUNGS' DATE:

20000726

APPLICATION INFO.:

EP 1999-204306

19991214

PRIORITY APPLN. INFO.:

US 1999-116507

19990120

L9 ANSWER 39 OF 42 EUROPATFULL COPYRIGHT 2001 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER:

989188 EUROPATFULL EW 200013 FS OS

TITLE:

MICROBIOSENSOR FOR THE CONTINUOUS MONITORING OF

CHEMICAL

SUBSTANCES IN **FLUIDS**.

MIKROBIOSENSOR ZUM KONTINUIERLICHEN NACHWEISEN VON CHEMISCHEN SUBSTANZEN IN FLUESSIGKEITEN.

MICROBIOCAPTEUR POUR LE MONITORAGE EN CONTINU DE SUBSTANCES CHIMIQUES EN MILIEUX FLUIDES.

INVENTOR(S):

DIEZ-CABALLERO ARNAU, Teofilo, Calle Conde Salvatierra, 35, E-46004 Valencia, ES;

RODRIGUEZ ALBALAT, Guillermo, Avenida Francia, 65, E-12540 Villarreal, ES;

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 PATENT ASSIGNEE NO: 2668540; 2668560
 AGENT: Sanz-Bermell Martinez, Alejandro, Jativa, 4, 46002
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 AGENT NUMBER: 54421
 OTHER SOURCE: BEPA2000022 EP 0989188 A1 0016
 SOURCE: Wila-EPZ-2000-H13-T1a
 DOCUMENT TYPE: Patent
 LANGUAGE: Anmeldung in , ; , V
 DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R FI; R FR; R GB; R GR; R
 IE; R IT; R LI; R LU; R NL; R PT; R SE
 PATENT INFO.PUB.TYPE: EPA1 EUROPAEISCHE PATENTANMELDUNG (Internationale
 Anmeldung)
 PATENT INFORMATION:

	PATENT NO	KIND DATE
	EP 989188	A1 20000329
'OFFENLEGUNGS' DATE:		20000329
APPLICATION INFO.:	EP 1998-917133	19980507
PRIORITY APPLN. INFO.:	ES 1997-1073	19970519
RELATED DOC. INFO.:	WO 98-ES127	980507 INTAKZ
	WO 9853090	981126 INTPNR

L9 ANSWER 40 OF 42 EUROPATFULL COPYRIGHT 2001 WILA

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 598833 EUROPATFULL EW 199744 FS PS
 TITLE: ABSORBENT ARTICLES CONTAINING ABSORBENT FOAM MATERIALS
 FOR AQUEOUS BODY **FLUIDS**.
 ABSORBIERENDE GEGENSTAENDE DIE ABSORBIERENDE
 SCHAUMMATERIALIEN FUEr WAESSRIGE KOERPERFLUESSIGKEITEN
 ENTHALTEN.
 ARTICLES ABSORBANTS CONTENANT DE MATIERES EPANSEES
 ABSORBANTES POUR FLUIDES.
 INVENTOR(S): DESMARAIS, Thomas, Allen, 4245 Floral Avneue,
 Cincinnati, OH 45212, US;
 STONE, Keith, Joseph, 1923 Augusta Boulevard,
 Fairfield,
 OH 45014, US;
 THOMPSON, Hugh, Ansley, 5777 Windermere Lane,
 Fairfield,
 OH 45014, US;
 YOUNG, Gerald, Alfred, 1101 Hearthstone Drive,
 Cincinnati, OH 45231, US;
 LAVON, Gary, Dean, 10132 Lee's Creek, Harrison, OH
 45030, US;
 DYER, John, Collins, 3760 Sherbrooke Drive, Cincinnati,
 OH 45241, US
 PATENT ASSIGNEE(S): THE PROCTER & GAMBLE COMPANY, One Procter & Gamble
 Plaza, Cincinnati, Ohio 45202, US
 PATENT ASSIGNEE NO: 200173
 AGENT: Bottema, Johan Jan et al, Procter & Gamble GmbH Patent
 Department Sulzbacher Strasse 40-50, 65824 Schwalbach
 am
 Taunus, DE
 AGENT NUMBER: 73382
 OTHER SOURCE: EPB1997069 EP 0598833 B1 971029
 SOURCE: Wila-EPS-1997-H44-T1
 DOCUMENT TYPE: Patent
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R
IE; R IT; R LI; R LU; R NL; R S
PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale
Anmeldung)

PATENT INFORMATION:

	PATENT NO	KIND DATE
	EP 598833	B1 19971029
'OFFENLEGUNGS' DATE:		19940601
APPLICATION INFO.:	EP 1992-918355	19920807
PRIORITY APPLN. INFO.:	US 1991-743839	19910812
RELATED DOC. INFO.:	WO 92-US6710	920807 INTAKZ
	WO 9304092	930304 INTPNR
REFERENCE PAT. INFO.:	EP 68830 A	EP 239360 A
	EP 299762 A	FR 2254583 A
	US 3734867 A	

L9 ANSWER 41 OF 42 EUROPATFULL COPYRIGHT 2001 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 583142 EUROPATFULL EW 199407 FS OS STA B
TITLE: Hepatitis A virus vaccine.

Hepatitis-A-Virus-Impfstoffe.
Vaccins contre l'hepatite A.
INVENTOR(S): Junker, Beth, 1009 Cranford Ave., Westfield, NJ 07090,
US;
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19403, US;
Oliver, Cynthia Newell, 12220 Ambleside Drive, Potomac,
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Orella, Charles J., 646 Store Road, Harleysville, PA
19438, US;
Sitrin, Robert D., 237 Emerson Drive, Lafayette Hill,

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19422, US;
Aunins, John G., 2069 Dogwood Drive, Scotch Plains, NJ
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Hagen, Anna J., 4 Belmont Square, Doylestown, PA 18901,
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Hennessey Jr., John P., 114 Fox Hollow Road, Dublin, PA
18917, US

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2000, Rahway New Jersey 07065-0900, US

PATENT ASSIGNEE NO: 200479
AGENT: Cole, William Gwyn et al, European Patent Department
Merck & Co., Inc. Terlings Park Eastwick Road, Harlow
Essex CM20 2QR, GB

AGENT NUMBER: 29438
OTHER SOURCE: ESP1994011 EP 0583142 A2 940216
SOURCE: Wila-EPZ-1994-H07-T1a

DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R
IE; R IT; R LI; R LU; R NL; R PT; R SE

PATENT INFO.PUB.TYPE: EPA2 EUROPAEISCHE PATENTANMELDUNG

PATENT INFORMATION:

PATENT NO	KIND DATE
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EP 583142 A2 19940216
'OFFENLEGUNGS' DATE: 19940216
APPLICATION INFO.: EP 1993-306223 1993080
PRIORITY APPLN. INFO.: US 1992-926873 19920810

L9 ANSWER 42 OF 42 EUROPATFULL COPYRIGHT 2001 WILA

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 516686 EUROPATFULL EW 199611 FS PS
TITLE: SEPARATION BY CARRIER MEDIATED TRANSPORT.
TRENNUNG DURCH TRANSPORT MITTELS EINES TRAEGER.
SEPARATION PAR TRANSPORT PAR PORTEUR MEDIEUR.
INVENTOR(S): COHEN, Charles, M., 98 Winthrop Street, Medway, MA
02053, US;
DISHMAN, Robert, A., 37 Garland Road, Concord, MA
01742, US;
HUSTON, James, S., 5 Drew Road, Chestnut Hill, MA
02167, US;
BRATZLER, Robert, L., 13 Blueberry Lane, Concord, MA
01742, US;
DODDS, David, R., 25 Ticonderoga Lane, Millis, MA
02054, US;
ZEPP, Charles, M., 19 Highland Street, Berlin, MA
01503, US
PATENT ASSIGNEE(S): CREATIVE BIOMOLECULES, INC., 45 South Street,
Hopkinton, MA 01748, US;
SEPRACOR, INC., 33 Locke Drive, Marlborough, MA 01752,
US
PATENT ASSIGNEE NO: 838172; 860850
AGENT: Holdcroft, James Gerald, Dr. et al, Graham Watt & Co.,
Riverhead, Sevenoaks, Kent TN13 2BN, GB
31911
AGENT NUMBER: EPB1996017 EP 0516686 B1 960313
OTHER SOURCE: Wila-EPS-1996-H11-T1
SOURCE: Patent
DOCUMENT TYPE: Anmeldung in Englisch; Veroeffentlichung in Englisch
LANGUAGE: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R
DESIGNATED STATES: IT; R LI; R LU; R NL; R SE
PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale
Anmeldung)
PATENT INFORMATION:
PATENT NO KIND DATE

EP 516686 B1 19960313
'OFFENLEGUNGS' DATE: 19921209
APPLICATION INFO.: EP 1991-904736 19910130
PRIORITY APPLN. INFO.: US 1990-479935 19900214
RELATED DOC. INFO.: WO 91-US627 910130 INTAKZ
WO 9112072 910822 INTPNR
REFERENCE PAT. INFO.: EP 250666 A WO 87-00165 A
FR 2330694 A US 3956112 A
US 4375414 A US 4563337 A
US 4939666 A
REF. NON-PATENT-LIT.: CHEMICAL & ENGINEERING PROGRESS C.E. P. vol. 85, no. 3,
March 1989, pages 58 - 70 R. D. NOBLE ET AL.
'FACILITATED TRANSPORT MEMBRANE SYSTEMS' JOURNAL OF
MEMBRANE SCIENCE vol. 37, no. 3, June 1988, pages 287 -
291 M. BRYJAK ET AL. 'CROWN-ETHER MEDIATED TRANSPORT OF
AMINO ACIDS THROUGH AN IMMOBILIZED LIQUID MEMBRANE'

AMINO

CHEMISTRY LETTERS no. 10, October 1985, pages 1549 -
1552 T. YAMAGUCHI ET AL. 'ENANTIOMER RESOLUTION OF

ACIDS BY A POLYMER-SUPPORTED LIQUID MEMBRANE CONTAINING
A CHIRAL CROWN ETHER' BIO/TECHNOLOGY vol. 5, June 1987,
pages 604 - 608 E. PUNGOR ET AL. 'CONTINUOUS
AFFINITY-RECYCLE EXTRACTION: A NOVEL PROTEIN SEPARATION
TECHNIQUE'